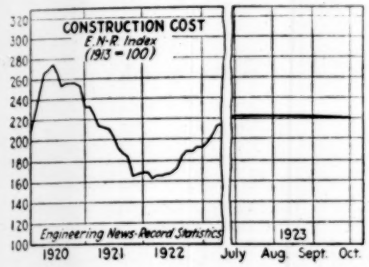
CONSTRUCTION NEWS

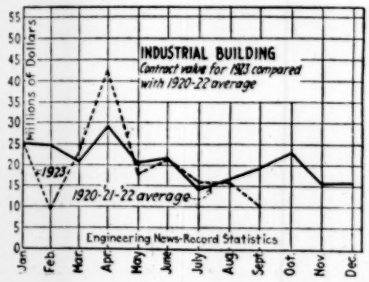
Engineering News-Record, October 11, 1923

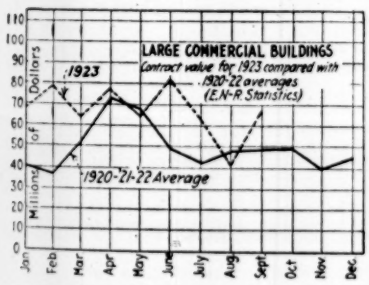
The Construction Barometer

Gain In Volume of Construction—Prices Stable—Drop In Industrial Building

THE apparent stabilization of costs during the last four months has resulted in an abrupt rise in the volume of construction in September, as shown by the charts. Labor costs have risen, in the skilled trades, but basic materials prices have shown little change. Had this lack of change been due to stagnation instead of stabilization, there could not have been an increase in the volume of construction, particularly at this season of the year. Nearly all classes of construction gained in value of contracts let, with the exception of industrial building. The unusual gain in bridge contracts is mainly due to four big jobs, namely: A 2,480-ft. steel bridge over the St. Johns River, Fla., $1,800,000; a 1,733-ft. concrete bridge over the Ashley River, S. C., $1,067,466; a bridge over the Delaware River between Philadelphia and Camden, N. J., $2,546,900 and a bridge over the Carquinez Straits, Calif., $4,500,000.







Engineering News-Record Statistics

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
Sept. 20	$13,016,000	$19,333,000	$32,349,000
Sept. 27	16,057,000	24,127,000	40,184,000
Oct. 4	16,915,000	17,145,000	34,060,000
3 weeks	$45,988,000	$60,605,000	$106,593,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

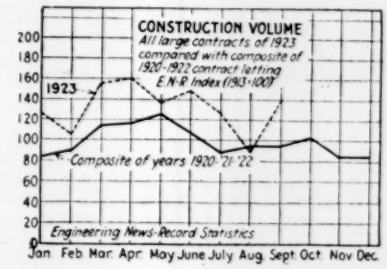
Week Ended	Public No.	Public Work	Private No.	Private Work
Sept. 20	7	$1,181,000	35	$16,913,000
Sept. 27	13	1,355,000	36	12,761,000
Oct. 4	12	4,651,000	33	12,587,000
3 weeks	32	$7,187,000	104	$42,261,000

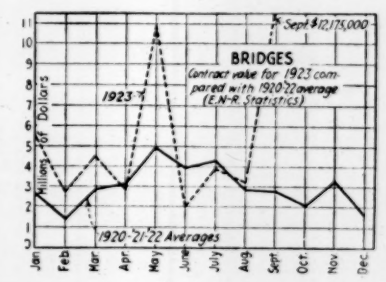
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

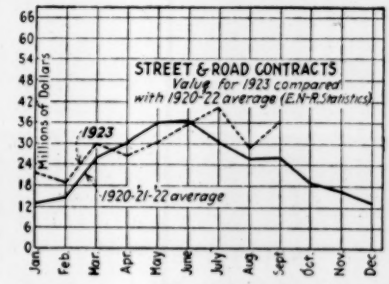
Week Ended	Private	Public All	Public Streets and Roads	Public Waterworks and Sewers	Public All Buildings
Sept. 20	35	179	51	35	37
Sept. 27	32	165	44	31	32
Oct. 4	44	186	57	23	43

LABOR AND MATERIALS FIRM AT PRESENT LEVELS

	Quoted on Oct. 11, at	Price Was	On
Structurals, Pittsburgh, 100 lb.	$2.50	@2.60	$2.50 June 21
Cement, Chi., net bbl.	2.20	2.05	Feb. 1
Pine, N. Y., M.ft.	62.00	61.00	Oct. 4
Fir, San Fran., M.ft.	41.00	42.00	Sept. 27
Common Labor, hr.	0.54	0.53	June 28







PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Oct. 16	Matawan, N. J.	Oct. 4
Oct. 16	Brooklyn Heights (Independence P. O.), O.	Oct. 11
Oct. 17	New York, N. Y.	Oct. 11
Oct. 18	Winona, Minn.	Oct. 4
Oct. 18	South Bend, Ind.	Oct. 4
Oct. 23	Buffalo, N. Y.	Sept. 20
Oct. 23	New Holstein, Wis.	Oct. 11
Oct. 24	Cleveland, O.	Oct. 4
	Adv. Oct. 4 and 11	
Oct. 26	Tulsa, Okla.	Sept. 27
	Adv. Sept. 27 and Oct. 4.	
Oct. 26	Wash., D. C.	Oct. 11
	Adv. Oct. 11.	
Oct. 30	Washington, Ia.	Oct. 11
Nov. 5	Haledon, N. J.	Oct. 11
Dec. 23	New Holstein, Wis.	Oct. 11

SEWERS

Oct. 15	Des Moines, Ia.	Oct. 11
Oct. 17	Brooklyn, N. Y.	Oct. 11
Oct. 17	Wrightsville, Ga.	Oct. 11
Oct. 18	Morris Plains, N. J.	Oct. 11
Oct. 22	Berea, O.	Oct. 4
	Adv. Oct. 4 and 11.	
Oct. 23	Toronto, Ont.	Oct. 11
	Adv. Oct. 11.	
Oct. 30	St. Louis, Mo.	Oct. 4
Nov. 1	Fort Erie, Ont.	Aug. 23
Dec. 10	New Orleans, La.	Oct. 11
	Adv. Oct. 11.	
Dec. 23	New Holstein, Wis.	Oct. 11

WASTE DISPOSAL

Oct. 30	Indianapolis, Ind.	Oct. 11

BRIDGES

Oct. 13	West Virginia	Oct. 11
Oct. 15	New Jersey	Oct. 4
	Adv. Oct. 4 and 11	
Oct. 16	Clearwater, Fla.	Sept. 13
Oct. 16	Fishkill, N. Y.	Sept. 27
	Adv. Sept. 27 to Oct. 11	
Oct. 16	Williamson, W. Va.	Sept. 27
Oct. 16	Ohio	Oct. 4
Oct. 16	Greenwood, Miss.	Oct. 8
Oct. 17	Illinois	Oct. 11
Oct. 18	Three Rivers, Mich.	Oct. 11
	Adv. Oct. 11.	
Oct. 19	Tennessee	Oct. 4
Oct. 22	Portland, Ore.	Sept. 27
Oct. 23	Mobridge, S. D.	Sept. 27

Bids Close		See Eng. News-Record
Oct. 23	Alabama	Oct. 4
Oct. 26	Centerville, Tex.	Sept. 27
Oct. 26	Phillipsburg, Kan.	Oct. 4
Oct. 29	California	Oct. 11
Oct. 30	Alabama	Oct. 4
Nov. 5	Fremont, O.	Oct. 11
Nov. 6	Quitman, Miss.	Oct. 11
Nov. 30	Sydney, Australia	Apr. 19
May 1	Tientsen, North China	Oct. 11

DAM

Oct. 17	Montreal, Que.	Oct. 11

RAILWAYS

Mar. 18	New Zealand	Sept. 20

EXCAVATION, DRAINAGE IRRIGATION

Oct. 15	Toronto, Ont.	Sept. 27
Oct. 15	Byron, Calif.	Oct. 4
Oct. 16	Fort Dodge, Ia.	Oct. 11
Oct. 19	Granite Falls, Minn.	Oct. 4
Oct. 22	Harlingen, Tex.	Oct. 11

STREETS AND ROADS

Oct. 14	Sebring, Fla.	Oct. 11
Oct. 15	Weston, W. Va.	Sept. 20
Oct. 15	Michigan	Sept. 27
Oct. 15	Lexington, Miss.	Sept. 27
Oct. 15	Tavares, Fla.	Oct. 4
Oct. 15	Center, Tex.	Oct. 4
Oct. 15	Long Island City, N. Y.	Oct. 11
Oct. 15	Evansville, Ind.	Oct. 11
Oct. 16	Waterloo, Ia.	Oct. 4
Oct. 16	Fayetteville, W. Va.	Oct. 4
Oct. 16	Ohio	Oct. 4
Oct. 16	Tampa, Fla.	Oct. 11
Oct. 16	Winnetka, Ill.	Oct. 11
Oct. 16	Steubenville, O.	Oct. 11
Oct. 16	Independence, La.	Oct. 11
Oct. 16	Compton, Calif.	Oct. 11
Oct. 16	Colorado	Oct. 11
Oct. 16	Phila., Pa.	Oct. 11
Oct. 16	Michigan	Oct. 11
Oct. 16	Louisiana	Oct. 11
Oct. 16	York, S. C.	Oct. 11
Oct. 16	Sioux City, Ia.	Oct. 11
Oct. 16	Ft. Worth, Tex.	Oct. 11
Oct. 17	Meadville, Miss.	Sept. 27
Oct. 17	Rhode Island	Oct. 4
	Adv. Oct. 4 and 11	
Oct. 17	Michigan	Oct. 4
Oct. 17	San Francisco, Calif.	Oct. 4
Oct. 17	Portland, Ore.	Oct. 11
Oct. 17	Illinois	Oct. 11
Oct. 17	Baltimore, Md.	Oct. 11
Oct. 17	Brooklyn, N. Y.	Oct. 11
Oct. 18	Houston, Tex.	Sept. 27
Oct. 18	Hemphill, Tex.	Sept. 27
Oct. 18	Gainesville, Fla.	Oct. 11
Oct. 18	Michigan	Oct. 11
Oct. 19	Marion, Kan.	Sept. 27
Oct. 19	Paris, Tex.	Sept. 27
Oct. 19	Tennessee	Oct. 4
Oct. 19	Wewoka, Okla.	Oct. 11
Oct. 20	Quebec	Oct. 4
Oct. 22	New Jersey	Oct. 4
	Adv. Oct. 4 and 11	
Oct. 22	Norton, Kan.	Sept. 27
Oct. 23	Kentucky	Sept. 27
Oct. 23	New Albany, Miss.	Oct. 4
Oct. 23	Marshall, Tex.	Oct. 11
Oct. 24	Alpha, N. J.	Oct. 4
	Adv. Oct. 4 and 11	
Oct. 25	Ventura, Calif.	Oct. 11
Oct. 29	California	Oct. 11
Oct. 29	New Mexico	Oct. 11
Oct. 30	Cheraw, S. C.	Oct. 11
Oct. 31	Jefferson, Tex.	Oct. 11
Nov. 5	Hondo, Tex.	Oct. 11
Nov. 6	Washington	Oct. 4

INDUSTRIAL WORK

Oct. 16	Fond du Lac, Wis.	Oct. 11
Oct. 17	Los Angeles, Calif.	Oct. 11
Oct. 18	La Grange, Ill.	Oct. 11
Oct. 24	Andrews, N. C.	Oct. 4
	Adv. Oct. 4 and 11	
Nov. 8	Palmyra, N. Y.	Oct. 11
	Adv. Oct. 11.	

BUILDINGS

Oct. 15	Bakersfield, Calif.	Sept. 27
Oct. 15	Nevada, Mo.	Oct. 4
Oct. 15	Indianapolis, Ind.	Oct. 4
Oct. 15	Detroit, Mich.	Oct. 11
Oct. 15	Memphis, Tenn.	Oct. 11
Oct. 15	Oklahoma City, Okla.	Oct. 11
Oct. 15	Flint, Mich.	Oct. 11
Oct. 16	Bridgeport, Conn.	Sept. 27
Oct. 16	Brooklyn, N. Y.	Oct. 4
Oct. 16	Montclair, N. J.	Oct. 4
Oct. 16	Leonia, N. J.	Oct. 4
Oct. 16	Waterbury, Conn.	Oct. 11
Oct. 16	Hartford, Conn.	Oct. 11
Oct. 17	Clifton, N. J.	Oct. 4
Oct. 17	San Francisco, Calif.	Oct. 11
Oct. 17	Davenport, Ia.	Oct. 11
Oct. 17	Los Angeles, Calif.	Oct. 11
Oct. 18	Springwells, Mich.	Oct. 4
Oct. 19	Wapakoneta, O.	Oct. 11
Oct. 20	Louisville, Ky.	Sept. 13
Oct. 20	Charlotte, N. C.	Oct. 11
Oct. 22	Johnstown, Pa.	Oct. 4
Oct. 22	Point Grey, B. C.	Oct. 11
Oct. 23	Ann Arbor, Mich.	Oct. 4
Oct. 23	St. Francis, Kan.	Oct. 4
Oct. 23	Madison, N. J.	Oct. 4
Oct. 23	Niles (R. F. D. Norwood Park, Chicago P. O.), Ill.	Oct. 11
Oct. 24	Marion, Ia.	Sept. 27
Oct. 24	Elizabeth, N. J.	Oct. 11
Oct. 27	Shreveport, La.	Oct. 11
Oct. 15	Waseca, Minn.	Sept. 20
Oct. 30	New York, N. Y.	Oct. 11
Oct. 30	Norristown, Pa.	Oct. 11
Nov. 1	Ft. Worth, Tex.	July 12
Nov. 1	Dallas, Tex.	Aug. 2
Nov. 1	Hutchinson, Kan.	Oct. 11
Nov. 30	Maggie, W. Va.	Oct. 4

FEDERAL GOVERNMENT WORK

Oct. 15	Breakwater—Hilo, H. T.	Aug. 23
Oct. 15	Dredging—Los Angeles, Calif.	Sept. 27
Oct. 15	Resurfacing—Castle Point (Chelsea P. O.), N. Y.	Oct. 4
Oct. 15	Floors and Runways—San Antonio, Tex.	Oct. 11
Oct. 15	Hangars—Belleville, Ill.	Oct. 11
Oct. 15	Roadwork — Vicksburg, Miss.	Oct. 11
Oct. 16	Buildings, etc.—North Little Rock, Ark.	Sept. 20
Oct. 16	Mechanical Equipment—Carville, La.	Sept. 20
Oct. 16	Buildings—Carville, La.	Sept. 20
Oct. 16	Jetty—Staten Island, N. Y.	Oct. 4
Oct. 16	Road—Arkansas	Oct. 4
Oct. 16	Road—Montana	Oct. 11
Oct. 17	Dredging — Bridgeport, Conn.	Sept. 20
	Adv. Sept. 20 to Oct. 11.	
Oct. 17	Post Office—Dawson, Ga.	Sept. 20
Oct. 17	Radio Masts—Puget Sound, Wash.	Sept. 20
Oct. 17	—Discharge Pontoons—Rock Island, Ill.	Sept. 27
	Adv. Sept. 27 to Oct. 11	
Oct. 17	Dredging—Providence, R. I.	Oct. 4
Oct. 17	Water Supply Improvements—Annapolis, Md.	Oct. 4
Oct. 17	Distribution System, etc.—Pensacola, Fla.	Oct. 4
Oct. 18	Dwellings — Newburg, Ind.	Sept. 20
	Adv. Oct. 4 and 11.	
Oct. 18	Road—Florida	Sept. 27
Oct. 18	Extension—St. Louis, Mo.	Oct. 4
Oct. 20	Pontoons, etc.—Cincinnati, O.	Sept. 20
	Adv. Sept. 20 to Oct. 11.	
Oct. 20	Radio Tower — Ft. Clark, Tex.	Oct. 4
Oct. 20	Mattresses, etc.—Pine Bluff, Ark.	Oct. 11
Oct. 20	Road—Juneau, Alaska	Oct. 11
Oct. 22	Derricks—Louisville, Ky.	Oct. 4
	Adv. Oct. 4 and 11	
Oct. 26	Dredging, etc.—Port Chester, N. Y.	Sept. 27
	Adv. Sept. 27 to Oct. 11	
Oct. 26	Post Office—Clinton, S. C.	Oct. 4
Oct. 29	Dredging—New Rochelle, N. Y.	Oct. 4
	Adv. Oct. 4 and 11	
Oct. 30	Dredging—Norfolk, Va.	Oct. 11
	Adv. Oct. 11.	
Oct. 31	Repairing Jetty—Freeport, Tex.	Oct. 4
	Adv. Oct. 4 and 11.	
Nov. 1	Pipe Line Dredge—Chicago, Ill.	Sept. 6
Nov. 1	Catamarans, etc.—Chicago, Ill.	Sept. 20
	Adv. Sept. 20, 27, Oct. 11 and 18	
Nov. 2	Dredge Pump, etc.—New Orleans, La.	Oct. 11
	Adv. Oct. 11.	
Nov. 5	Post Office—Hoosick Falls, N. Y.	Oct. 11
	Adv. Oct. 11.	
Nov. 6	Sewer Pipe—American Falls, Idaho	Oct. 11
	Adv. Oct. 11.	
Nov. 7	Extension—Pearl Harbor, H. T.	Sept. 20
Nov. 14	Storehouse—Pearl Harbor, H. T.	Sept. 27
Nov. 30	Dam—Quebradillas, P. R.	Sept. 27
	Adv. Sept. 27 to Oct. 11	

MISCELLANEOUS

Oct. 15	Gravel—Kountze, Tex.	Sept. 27
Oct. 15	Road Scrapers—Montreal, Que.	Oct. 11
Oct. 15	Ornamental Lighting System—Dubois, Pa.	Oct. 11
Oct. 16	Lighting System—Chino, Calif.	Oct. 4
Oct. 16	Materials—St. Paul, Minn.	Oct. 11
Oct. 17	Levee—Ennis, Tex.	Oct. 4
Oct. 17	Tunnel—Phila., Pa.	Oct. 4
Oct. 17	Underground Fire Alarm System—New York, N. Y.	Oct. 11
Oct. 18	Rails—Houston, Tex.	Oct. 11
Oct. 18	Lumber—New Orleans, La.	Oct. 11
Oct. 22	Breakwater—St. Francis Harbor, N. S.	Oct. 11
Oct. 22	Breakwater—Port Lorne, N. S.	Oct. 11
Oct. 23	—Protection Work—Shreveport, La.	Oct. 4
Oct. 23	Portland Cement—Portland, Ore.	Oct. 4
Oct. 23	Tractor — Grand Rapids, Minn.	Oct. 11
Oct. 23	Wall and Dike—Shreveport, La.	Oct. 11
Oct. 25	Subway—San Francisco, Calif.	Oct. 11
Nov. 7	Board Walk—Spring Lake, N. J.	Oct. 11
	Adv. Oct. 11.	
Feb. 28	Headworks — Wellington, New Zealand	May 24

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Ballston Spa — Soon takes bids dam and storage reservoir in Crook Brook water shed to supply additional 800,000 gal. daily. $325,000. J. L. Tracy, village pres. Noted March 1.

N. Y., Canandaigua—See "Miscellaneous."

N. Y., Hornell—Plans tapping underground stream and installing necessary machinery for pumping water into mains. Cost of machinery $10,000.

N. Y., Sodus—Plans modern water system. $80,000. Engineer not announced.

Pa., Shenandoah — Plans to extend and improve waterworks. Election in November to vote on $200,000 bonds. Engineer not selected.

Fla., Lake Worth—Voted $25,000 bonds for extension to distribution system, 20,000 ft. 4 and 6 in. c.i. pipe. G. Kingsley, Lake Worth, engr.

La., Gibsland—Having preliminary plans prepared for waterworks and distribution system, electric light plant and transmission lines. $50,000. E. T. Archer & Co., 1010 Merchants Bldg., Shreveport, engrs.

La., Shreveport—Voted $405,000 bonds for reservoir, $225,000 for pump house conduit, $106,000 for settling basins, $100,000 for filters and $100,000 for main extensions. J. N. Chester, Engineer, Union Bank Bldg., Pittsburgh, Pa., engrs.

La., Winfield—Having preliminary surveys made extending waterworks, also storm and sanitary sewers. $100,000. E. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs.

Tenn., Gallatin — Having preliminary plans prepared filtration plant. $35,000 bonds voted. B. H. Klyce, 4th & 1st Natl. Bank Bldg., Nashville, consult. engr. Noted Sept. 27.

Kan., Lenora — Soon takes bids waterworks plant and distribution system. $35,000 bonds voted. Rachel Eng. Co., Hutchinson, engrs.

Mo., Ava — Making plans waterworks, reservoir, tower, distribution mains, etc. To exceed $30,000. Plans election to vote on bonds. Elston, Axon & Russell, 404 McDaniel Bldg., Springfield, engrs.

Mo., Salem—Oct. 30 to vote on $69,000 bonds waterworks and distribution system. E. T. Archer & Co., 612 New England Bldg., Kansas City, engrs. Noted Sept. 13.

Wyo., Evansville — Plans water supply system incl. small diversion dam, several miles of intake pipe line, standpipe, etc. $85,000 bonds voted. Wheeler & Worthington, Cons. Roy. Bldg., Casper, consult. engrs.

Mo., Cameron — Voted $53,433 bonds waterworks and distribution system. Burns & McDonnell, 401 Interstate Bldg., Kansas City, engrs. Noted Sept. 13.

Mo., Shelbina—Making estimates 3 mi. c.i. force mains, also appraisal of light and waterworks properties. Burns & McDonnell, Interstate Bldg., Kansas City, engrs.

Okla., Quinton—Preparing plans and will soon vote on $20,000 bonds for rapid sand mechanical filter plant. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engr.

Waterworks (Continued)

Calif., Calexico—Plans to vote on $90,000 bonds for extensions to system, $20,000 will be expended for filters.

Calif., Colusa — G. N. Farnsworth had plans prepared 4,750 ft. of 36 in. precast concrete pipe line, 11,000 ft. canal, 11 ft. top, 5 ft. wide at bottom and 2 ft. deep, 2 centrifugal pumps, etc. To exceed $45,000. F. H. Tibbetts, Alaska Commercial Bldg., San Francisco, engr.

Calif., Oceanside—Voted $80,000 bonds for water system.

Calif., Santa Ana—Orange Co. Waterworks Dist. 2 plans election to vote on $30,000 bonds for waterworks.

Calif., Upland—City voted $225,000 bonds to purchase and improve privately owned system. Improvements will exceed $25,000.

Ont., Fonthill—Soon takes bids 3 mi. 6 and 8 in. c.i. mains, hydrants, etc. $40,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Port Credit—Plans 2½ mi. 6 in c.i. mains. $30,000. Gore, Nasmith & Storrie, Confederation Life Bldg., Toronto, engrs.

BIDS DESIRED

N. Y., New York—Oct. 17, by Bd. Purch., Municipal Bldg., furnishing, delivering, unloading, stacking and storing c.i. pipe and special castings to Dept. Water Supply, Gas and Electricity.

N. J., Haledon—Nov. 5, pumping station and extending water system. H. J. Harder, 129 Market St., Paterson, engr.

D. C., Wash.—Oct. 26, at office Washington Suburban Sanitary Comm., Evans Bldg., New York Ave., elevated steel tank, Contr. 38-W. R. B. Morse, Hyattsville, Md., ch. engr. of dist.; adv. E. N.-R. Oct. 11.

La., New Orleans—See "Sewers."

O., Brooklyn Heights (Independence P. O.)—See "Sewers."

Wis., Fond du Lac — See "Industrial Work."

Wis., New Holstein — Oct. 23, drilling artesian well, 800 ft. deep, 130 ft. of 12 in., 390 ft. 10 in pipe, and balance 8 in. $15,000. J. Donohue, Co., 628 North 8th St., Sheboygan, engrs.

Wis., New Holstein — Dec. 18, by L. Hipke, village clk., new waterworks system incl. 29,740 lin.ft. 4-10 in. Class B c.i. pipe, thirty-eight 6-10 in. valves, 10 tons special castings, 1,300 cu.yd. rock excav., 60,000 gal. steel tank on 100 ft. steel tower. J. Donohue Eng. Co., North 8th St., Sheboygan, engr.

Ia., Washington—Oct. 30, by S. J. Kellogg, city clk., 1,900 ft. well with casing. Bids later for pumping plant, elevated tank and other equipment. Ultimate cost $80,000. Noted Sept. 27.

Minn., St. Paul—See "Miscellaneous."

BIDS RECEIVED

N. Y., New York — Bd. Water Supply, Gas & Electricity, Municipal Bldg., Oct. 5, completing contract of J. O'Leary for mains in Baychester Ave., from C. DeBlasio, 339 7th Ave., Mt. Vernon, $30,000; check valves, etc., on mains in 5th Ave. Central Park, from Wataga Contg. Co., $26,650.

O., Idlewood (Cleveland Heights, P. O.)—Cast iron mains in Washington Blvd., Brockway, Cedarbrook, Farland, Trillamore, Bushnell, Fenwick, Lansdale, Vernon, Westwood, and Edgerton Rds., from Consolo & Palermo, 2208 Murray Hill Rd., Cleveland, $31,252.

Wis., Algoma — Watermain extensions, 4,710 ft. 6-10 in. c.i. pipe, from E. Olson, Sturgeon Bay, $18,700.

Tex., Ft. Worth—Filter building addition, mixing chamber, coagulation-sedimentation basin, filter water reservoir with appurtenances and incl. pipe connecting same, also filter equipment, from Carruthers Constr. Co., Ft. Worth, $192,365. Noted Sept. 6.

Calif., Glendale — See "Streets and Roads."

CONTRACTS AWARDED

Connecticut — South Manchester Water Co., 2 mi. 15, 20 and 24 in. c.i. pipe from dam in Buckingham to South Manchester and Manchester, to A. W. Byrne, 71 Turnmore St., Hartford. Engrs. est. $50,000. Noted Sept. 24.

N. J., Glen Rock (Ridgewood P. O.)—See "Sewers."

Ill., Western Springs—Boring and constructing artesian well to S. B. Geiger, Old Colony Bldg., Chicago. Engrs. est. $30,000.

Okla., Cyril—New system, well, tank, tower and hydrants, 17,300 ft. 4 in. and 1,600 ft. 6 in. c.i. pipe, to N. S. Sherman Co., 18 East Main St., Oklahoma City, $30,906. Engrs. est. $31,000. Noted Sept. 20.

Calif., Glendale — See "Streets and Roads."

Sewers

PROPOSED WORK

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, rejected bids Sept. 20, sewer in West 24th St. Will readvertise. Noted Sept. 27.

N. J., Asbury Park—Plans 18-48 in. iron storm drain in Comstock St. $75,000. N. Rogers, Asbury Park, engr.

Mich., Detroit—Plans prepared 13,681 ft. 12-24 in. vitr. crock sewers in Laterals 3888, 4010 and 4013; 3,201 ft. 12-18 in. in Lateral 4016; 5,670 ft. 12 in. to 3 ft. 6 in. and 730 ft. 2 ft. 6 in. to 3 ft. 6 in. in Lateral 4017; 6,478 ft. 12 to 20 in. and 531 ft. 3 ft. 9 in. in Lateral 4018; 1,256 ft. 12-15 in. in Lateral 4019. G. Jerome, city engr.

Ill., Taylorville—Making plans sewers and disposal plant. To exceed $150,000. Engineer not selected.

W. Va., Huntington—Election in November, to vote on $1,000,000 bonds improving and enlarging sewerage system. A. B. Maupin, city engr.

La., Shreveport—Voted $50,000 bonds for outlet sewer, etc. J. N. Chester, Engineers, Union Bank Bldg., Pittsburgh, Pa., engrs.

Kan., Great Bend—Making plans rehabilitating present sanitary sewerage system, requiring construction new outfall and other improvements. $100,000. Ruckel Eng. Co., Hutchinson, designing engrs. Burns & McDonnell, 402 Interstate Bldg., Kansas City, Mo., consult. engrs. Noted Aug. 9.

Mo., Cameron—Voted $53,860 bonds sanitary sewers. Burns & McDonnell, 401 Interstate Bldg., Kansas City, engrs. Noted Sept. 13.

Mo., Salem—Oct. 30 to vote on $56,000 bonds storm and sanitary sewers. E. T. Archer & Co., 612 New England Bldg., Kansas City, engrs. Noted Sept. 13.

Tex., Laredo—Revising plans and will soon take bids repairing and extending sewerage system. Former bids rejected. E. F. Greelins, 211 Alexander Bldg., engr. Noted Sept. 27.

Tex., San Antonio—Election first week in December to vote on $250,000 bonds extending and general improvements to storm sewers; $100,000 bonds extending and improving sanitary sewers. D. D. Harrigan, city engr.

Okla., Quinton—Preparing plans 7 mi. sanitary sewerage system and disposal plant. $50,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Calif., Dos Palos—Plans to vote on $25,000 or more bonds for sewage improvements.

Calif., Fresno—Had plans prepared 6,999 lin.ft. 8 to 18 in. vitr. pipe sewers in portions of Monterey, G and H Sts. W. Stranahan, city engr.

Calif., Sacramento—Plans sewer in 7th St. between H & S Sts. To exceed $35,000. A. Givan, city engr.

Calif., Tracy — Rejected bids disposal plant. C. F. Smith, 516 Santa Barbara Rd., Berkeley, engr. Noted Sept. 27.

BIDS DESIRED

N. Y., Brooklyn—Oct. 17, by M. E. Connolly, boro pres., Boro Hall, storm and sanitary sewers in 8th St. between Aves. T and W, and between Aves. M and U, 82nd, East 27th, West 6th, 87th and 86th Sts.

N. J., Morris Plains—Oct. 18, by B. G. Lewis, comr. Institutions & Agencies, State House, Trenton, disposal plant, concrete tank, 100 ft. square, 8 ft. deep, terra cotta pipes, 12 ft. brick building, etc., at Hospital for Insane, here. $73,500. A. B. Mills, State Office Bldg., Trenton, engr. Noted May 24.

Ga., Wrightsville—Oct. 17, by city, 5 mi. 6-12 in. pipe sewer. A. Pew, 30 Cone St., Atlanta, engr. Noted Aug. 23.

La., New Orleans—Dec. 10, by Sewerage & Water Bd., 425 Carondelet St., for sewerage, waterworks and drainage construction during 1924; adv. E. N.-R. Oct. 11.

O., Brooklyn Heights (Independence P. O.)—Oct. 16, 1,930 ft. 12-18 in. vitr. clay sewer and 2,600 ft. 6 in. c.i. water mains. To exceed $25,000. W. H. Evers Eng. Co., Engineers Bldg., Cleveland, engrs.

Wis., New Holstein—Dec. 18, by L. Hipke, village clk., new sewerage system, incl. 35,300 lin.ft. 6-12 in. vitr pipe, 460 ft. 6 in. c.i. pipe, 36 manholes, sewage pumping station, 2,400 lin.ft. 15 in. drain tile of shale, concrete or vitr. con., 2,850 lin.ft. 12-15 in. vitr. storm sewers. J. Donohue Eng. Co., North 8th St., Sheboygan, engrs.

Ia., Des Moines—Oct. 15, by A. E. McGlothen, clk., Southwest Sewerage System, 44,406 lin.ft. 10-24 in. pipe, 22,402 lin.ft. 30-48 in. circular sewer, one dry weather outfall and one inverted syphon complete. $600,000. K. C. Kastberg, city engr. Noted Aug. 16.

Ont., Toronto—Oct. 23, by C. A. Maguire, chn. Bd. Control, City Hall, furnishing one 1,000 gal. portable sewage pump with electric motor. R. C. Harris, city engr.

BIDS RECEIVED

N. J., Asbury Park—For 4,470 ft. 12-36 in. concrete storm drains, from W. J. Hanratty, 1124 Sewell St., $29,615. Noted Sept. 27.

N. J., Perth Amboy—Trunk sewer with necessary connections and appurtenances, from Hammen & Co., 4612 Woodward St., Detroit, Mich., $537,000. Noted Sept. 20.

Md., Baltimore—Bd. Awards, Oct. 3, constructing storm water and sanitary sewers in Bellwood Ave., Storm Contr. 64, 900 ft. of 6-9 ft. rein.-con. and 700 ft. 18 in. sewer, from D. Catalano, Knickerbocker Bldg., $30,663. Noted Sept. 27.

O., Cleveland—For 2,906 ft. 4 ft., 2,910 ft. 5 ft. 6 in., 2,693 ft. 5 ft. and 261 ft. 4 ft. 9 in. circular C brick or segmental block sewer in Ridge Rd. Sewer Dist., from Winterbottom & Connolly, 1815 Corning Ave., $232,125. Noted Sept. 20.

O., Cleveland—Cuyahoga Co., disposal plant in Tuxedo Lake allotment, Impvt. 33-B, from Lane & Freeman, Newman Stern Bldg., $25,844.

O., Idlewood (Cleveland Heights, P. O.)—Sewer in Cedar Rd., from Consolo & Palermo, 2208 Murray Hill Rd., Cleveland, $36,158.

Mich., Detroit—Lateral sewer 3884 from W. Blanck & Co., 827 Ford Bldg., $24,476; Lateral 3886 from Detroit Drainage Constr. Co., Detroit, $16,000; Lateral 3889 from P. Cappelo, Detroit, $3,300; Lateral 4099 from C. R. Lennane & Co., 2631 Woodward Ave., $24,391. Noted Oct. 4.

Minn., Austin—City, Sept. 28, installing disposal plant, direct oxidation system, (a) hollow tile and stucco with cement roofs (b) brick with cement roofing, from Direct Oxidation Corp., Penna Bldg., Phila., Pa., (a) $289,755 (b) $289,962.

CONTRACTS AWARDED

N. Y., Brooklyn — E. Riegelmann, boro pres., Boro Hall, to J. J. Guinan Contg. Co., Inc., 2314 Gravesend Ave., sewers in West 8th St. 90% engrs. est. ($4,825), West 10th St. 83% ($3,505), West 27th St. 84% ($7,805), West 35th St. 83% ($4,848), West 31st St. 83% ($6,378); to Tomasetti & Co., Inc., 1133 60th St., in West 12th St. 85.85% ($13,083), Stillwell Ave. 85.85% ($13,547); to P. J. Donlon Contg. Co., 82 South 3rd St., in West 15th St. 84.9% ($15,762), West 16th St. 83.5% ($14,150), West 9th St. 83.2% ($13,418), West 28th St. 83% ($3,165), West 29th St. 85% ($6,858), West 36th St. 83% ($4,942); Necaro Co., Inc., 97 Court St., in Hamilton Ave. $275,424; S. Ambrozio, 1016 60th St., in 45th St. 88% ($450). Noted Sept. 27.

N. Y., Greenwich—Barbour Flax Spinning Co., modern disposal plant, to Llewellyn-Smith Constr. Co., Glens Falls, $25,000.

N. Y., Rochester—Storm and sanitary sewer in Highland Ave., to J. Petrossi, Elwood Bldg., $49,051. Noted July 5.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, temporary sewers in Bradley Ave., to F. J. Cerelli, $11,576; Hinschliff Ave., to J. Johnson Sons, 455 Bway., West New Brighton, S. I., $111,756. Noted Sept. 20.

N. J., Glen Rock (Ridgewood P. O.)—Extending sewerage system, to Paterson Contg. Co., 111 Water St., Paterson; constructing pumping station, to E. B. Edgar, Scotia, N. Y. Noted July 12.

N. J., Montclair—Storm sewerage system, to A. Lampariello, 37 Glenridge Ave., $36,666. Noted Sept. 20.

Pa., Monessen — City, 3,500 ft. storm sewers, lock joint pipe, for 3rd St., to Donora Constr. Co., Donora, $71,318. Noted Aug. 30.

Fla., St. Petersburg—Sanitary sewers, to J. B. McCrary Co., 3rd Natl. Bank Bldg., Atlanta, Ga., $189,700 and Miller & Stamm, St. Petersburg, $70,550. Noted Aug. 23.

La., Minden—Storm and sanitary sewers in various streets, to Janes Constr. Co., Southwestern Life Bldg., Dallas, Tex., $105,000. Noted July 26.

Sewers (Continued)

La., Winfield—See "Waterworks."

O., Cleveland—For 1,135 ft. 5 ft. 9 in. circular "E" and 765 ft. 5 ft. 6 in. circular "C" brick sewer in East 141st St., to W. McDowell & Son Co., 10309 Miles Ave., $49,178.

O., Cleveland — Cuyahoga Co., 122 ft. 2 x 4 ft. concrete, 10,310 ft. 8-42 in. vitr. clay and segmental block sewers in Impvt. 34, to Manson Co., c/o Sewer Contractors Exchange, $97,760.

O., Cleveland—For 1,020 ft. 6 ft. 6 in. to 8 ft. circular brick sewer (Morgan Run Culvert), to Donnelly & Miller, 1251 East 84th St., $74,662. Noted Oct. 4.

Mo., Gallatin—For 5,000 ft. sanitary sewers, to Asplund Constr. Co., Tecumseh, Neb., $31,621. Engrs. est. $32,500.

Wash., Seattle — Bd. Pub. Wks., trunk sewer in 30th Ave. S.W. et al., 58,857 ft. 8-30 in., 1,450 ft. 15-30 in. and 415 ft. 8-24 in. clay sewers, to J. F. Shea & Co., Henry Bldg., Portland, $224,659. Engrs. est. $211,-845. Noted Sept. 27.

Calif., Centerville—Union Sanitary Dist., 74,793 lin.ft. 6-14 in. vitr. pipe, to W. J. Tobin, 527 Santa Ray Ave., Oakland, $68,-685. Noted Oct. 4.

Calif., Long Beach — Deep sewers in Bway. between Alamitos and Golden Aves., to H. D. Churchill Co., 352 Merrick St., Los Angeles, $66,500. Noted Sept. 6.

Waste Disposal

BIDS DESIRED

Ind., Indianapolis—Oct. 30, by Bd. Sanitary Comrs., Room 208, City Hall, 16 trailers for use in collection and removal of garbage and ashes. J. A. Craven, pres.

CONTRACTS AWARDED

W. Va., Huntington—For 40 ton double unit incinerator, to Nye Odorless Creamery Co., Georgia Life Bldg., Macon, Ga. Engrs. est. $35,000.

Fla., St. Petersburg—For 80 ton garbage incinerator, to Superior Garbage Incinerator Co., Dallas, Tex., $76,500. Noted Aug. 23.

Tex., San Antonio—City 60 x 90 ft. brick, concrete and tile (2nd unit) incinerator plant, 40 ton per 12 hr., to Superior Incinerator Co., San Antonio, $35,000.

Bridges

PROPOSED WORK

Vermont—See "Streets and Roads."

Conn., Manchester—Plans concrete bridge on Middle Turnpike. $25,000. J. F. Bowen, 570 Woodbridge St., engr.

Tenn., Smithville — De Kalb Co. and Tennessee Dept. of Hys., Nashville, plan concrete bridge over Caney Fork River, 7 mi. east of here. $120,000. Bonds voted.

O., Youngstown—Mahoning Co. plans to replace ¼ mi. steel bridge over Mahoning River, on South Ave. $400,000-$500,000. City plans to widen streets leading up to approach. Engineer not selected.

Minnesota—State Hy. Dept., St. Paul, plans bridge in Olmsted Co., Project 335. $38,500. State Hy. Dept., St. Paul, engrs.

Tex., Fairfield—See "Streets and Roads."

Kan., Winfield — Cowley Co. had plans prepared bridge over Arkansas River, two 130 ft. steel trusses, rein.-con. substructure. $50,000. W. S. Ruggles, co. engr.

Tex., Kountze—See "Streets and Roads."

BIDS DESIRED

West Virginia — Oct. 13, by State Rd. Comn., Charleston, concrete or masonry substructure for approximately 150 ft. steel span bridge known as Fenwick Bridge 929, over Cherry River, Nicholas River. E. B. Carskadon, secy.

W. Va., Weston—See "Streets and Roads."

S. C., York—See "Streets and Roads."

Miss., Greenwood—Oct. 16, by Supervs. La Flore Co., 290 ft. swing span over Yazoo River, 116,000 lb. structural and 268,600 lb. reinforcing steel, 2,228.42 cu.yd. concrete, 12,152 ft. untreated foundation piling, 2,900 ft. untreated timber, 30,800 ft. creosoted timber, etc. H. C. Dietzer, c/o State Hy. Dept., Jackson, engr. Noted Sept. 6.

Miss., Quitman — Nov. 6, by Supervs. Clarke Co., Court House, one 80 ft. span on Federal Aid Project 188-B, Clark Co., 134.52 cu.yd. concrete, 9,950 lb. reinforcing, 560 ft. wooden piling. H. C. Dietzer, c/o State Hy. Dept., Jackson, engr.

Louisiana—Oct. 11, by State Hy. Comn., Reymond Bldg., Baton Rouge, 70 ft. steel riveted truss span and two 20 ft. rein.-con. deck approach spans on rein.-con. piers on Federal Aid Project 82 C, Arcadia-Shreveport Highway, Bienville Parish, also 40 ft. span and two 26 ft. approach spans, all rein.-con deck girders on rein.-con. piers, on Federal Aid Project 110 A, Ruston-Arcadia Highway, Lincoln Parish. J. M. Fourmy, ch. engr.

O., Fremont—Nov. 5, by Sandusky Co. 5 arch rein.-con. bridge over Sandusky River, State St. $240,000. L. H. Wismar, co. surv. Noted May 31.

Mich., Three Rivers — Oct. 18, by E. A. Schall, city clk., 2 span steel bridge over St. Joseph River, Bway. G. Champe, Toledo, O., engr.; adv. E. N.-R. Oct. 11.

Illinois—Oct. 17, by Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, one 50 ft. steel bridge, 6 rein.-con. girder and 5 rein.-con. slab bridges, 3,060 cu.yd. concrete and 34,000 lb. structural steel. C. H. Older, ch. highway engr.

California—Oct. 29, by State Hy. Comn., Sacramento, bridge over Salinas River at Nacimiento Station, Monterey Co., will have twenty-seven 19 ft. timber trestle spans and four 150 ft. steel truss spans. R. M. Morton, state highway engr.

North China, Tientsen—May 1, by Hai Ho Conservancy Comn., 306 ft. rein.-con. and steel bridge, 58 ft. wide, over Hai Ho River. $550,000. All specifications for American contractors can be obtained from office of Bureau of Foreign & Domestic Commerce, Custom House, New York City.

BIDS RECEIVED

Pa., Johnstown—M. L. Masterton, supt. streets & pub. improvements, City Hall, constructing Napoleon St. Bridge over Stoney Creek, from Farris Eng. Co., Empire Bldg., Pittsburgh, $152,718; Coopersdale Bridge over Conemaugh River, from Independent Bridge Co., May Bldg., Pittsburgh, $179,400. Noted Sept. 13.

Louisiana — State Hy Comn., Reymond Bldg., Baton Rouge, Oct. 2, building bridge on Port Allen-New Roads, Port Allen-Plaquemine and Port Allen-Rosedale Highways, from Banta & Mutersbaugh, Lake Charles, $61,784. Noted Sept. 13.

La., Mermentau—State Hy. Dept., Reymond Bldg., Baton Rouge, Oct. 2, highway bridge and approaches over Mermentau River here, as follows: Alternate A consisting of series of 29 ft. rein.-con. girder spans resting on rein.-con. open bents and pile foundation, 7 spans on east end and 10 spans on west end of bridge from Austin Bridge Co. 1813 Clarence Ave., Dallas, Tex., $190,120; Alternate B consisting of series of 19 ft. creosoted timber spans on creosoted piling, 16 spans on east end and 27 spans on west end of bridge, from Missouri Valley Bridge & Iron Co., 4th and Walnut Sts., Leavenworth, Kan., $146,989; building embankment of approaches from A. E. Perry, Monroe, $33,415. Noted Aug. 30.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, constructing bridges, **c g means concrete girder, c s concrete slab, c c concrete culvert, super superstructure and sub substructure, 3-39 B McDonough means (Route 3, Sect. 39 B, McDonough Co.)** 1 c g 3-39 B McDonough, from H. C. Holmes, Macomb, $7,750; one 50 ft. c g and 4 c c, 3-81 B, Morgan, from Medaris Constr. Co., Greenfield, $14,187; one 30 ft. and one 40 ft. c g 2-35 B Winnebago and Ogle, from F. E. Marsh & Co., Masonic Temple Bldg., Des Moines, Ia., $15,159; one 18 ft. c s and three 40 ft. c g 2-38 B Ogle, and one 20 ft. and one 24 ft. c. s. 2-39 B Ogle, from F. M. Hughes, Dixon, $21,016 and $7,832 respectively; one 130 ft. super for steel, 3-13 C Whiteside, and one 10 ft. c c, one 35 ft. c g and one 130 ft. concrete sub, 3-11 B and 13 B Rock Island and Whiteside, one 20 ft. c s, one 30 ft. c g and one c g with three 30 ft. spans 30-14 B, Stark-Henry, from Sheldon Constr. Co., Putnam Bldg., Davenport, Ia., $10,954, $15,766 and $23,601 respectively; one 30 ft. c. g, and one 80 ft. concrete sub 3-25 B, Mercer, from C. D. Stratton, Little York, $25,762; one 80 ft. super steel, 3-25 C Mercer, from Continental Bridge Co., Monadnock Blk., Chicago, $5,962; 1 temporary steel 4-23 B Logan, from E. H. Heavey, Lincoln, $14,-411; one 20 ft. c s and one 40 ft. c g 9-26 B Hancock, from Cameron, Joyce & Co., Keokuk, Ia., $14,396; one c s with two 12 ft. spans, one c s with two 22 ft. spans 19-24 B Lake from R. Mann, Rockford, $15,926; one 35 ft. c g, one 150 ft. concrete sub and four 50 ft. c s 31-10 B Brown-Schuyler, from List & Gifford Constr. Co., Ry. Exch. Bldg., Kansas City, Mo., $46,751; one 125 ft. steel super 30-110 Stark, from W. H. Shons, South Liberty Ave., Freeport, $11,376; one 150 ft. steel super 31-10C, Brown and Schuyler, from Illinois Steel Bridge Co., Jacksonville, $13,-510; one 125 ft. steel sub and [illegible] 40 ft. c s 30-11 B Stark Co., from [illegible] Laib, Bloomington, $30,912. Noted Sept. 20.

California—State Hy. Comn., Sacramento, 240 ft. bridge, 21 ft. wide, over San Lorenzo River, near King City, Monterey Co., from De Waard & Cobham, Granger Bldg., San Diego, $34,456. Noted Sept. 20.

CONTRACTS AWARDED

New Jersey—Joint Comn. for Elimination of Toll Bridges over Delaware River, between New Jersey and Pennsylvania, State House, Trenton, repairing masonry work and superstructure of bridge over Delaware between Wilburtha, N. J., and Yardley, Pa., to Hill Constr. Co., 132 Holmes St., Mt. Holly, $36,100. Engrs. est. $36,000.

Ont., Toronto—City, bridge over Avoca Vale, St. Clair Ave., 600 ft. long, 45 ft. roadway, 2 sidewalks, 2 car tracks, etc., to J. E. Russell Constr. Co., Harbor Comn. Bldg. $572,464.

Michigan — State Hy. Dept., Lansing, three 50 ft. concrete girder bridges 020604, 020605 and 020606, Alger Co., to G. E. Warden Co., Eau Claire, Wis., $26,069. Noted Oct. 4.

Calif., Los Angeles—Harbor Comn., concrete viaduct and ramp for Harbor Blvd., to Clinton Constr. Co., Stock Exchange Bldg., $131,600. Noted Oct. 4.

Dams

PROPOSED WORK

Conn., Winchester—Torrington Electric Light Co., Torrington, plans 175 ft. dam, 20 ft. high, here. $100,000.

Ark., Hiram — Big Creek Power Co., Hiram, soon takes bids 40 ft. rock crib, natural rock spillway dam, 300 cu.yd. excav., 15,210 cu.yd. concrete, two 115 ft. turbines, two 75 k.w. generators with exciters, transformers, etc. and 3½ mi. transmission line. $44,045. Private plans.

Ark., Little Rock—Arkansas Power Corp. does not plan to take bids for power dam on Little Red River. This corrects report in Sept. 27 issue.

Tex., San Saba—See "Excavation, Drainage, Irrigation."

BIDS DESIRED

N. C., Andrews—See "Industrial Works."

Que., Montreal—Oct. 17, by J. A. Tessier, chn. Quebec Streams Comn., 59 Notre Dame St. E., storage dam at Lake Metis. $200,000.

Railways

PROPOSED WORK

Connecticut—Connecticut Co., 127 State St., Hartford, plans laying double track on Capitol Ave., Hartford. $25,000.

Kentucky—Chesapeake & Ohio R.R. Co., 823 East Main St., Richmond Va., plans extension of yards, terminal facilities, etc., and realignment of main line tracks to site of proposed new station, at Ashland. $500,-000. H. Frazier, ch. engr.

Kentucky — Louisville & Nashville R.R. Co., 10th St. and Bway., Louisville, plans new freight yards at Strawberry. $100,000. W. H. Courtenay, 10th and Bway., Louisville, ch. engr.

Texas—Gulf Coast Lines Ry., Union Sta., Houston, making plans 150 mi. road from Samfordyce to Laredo, via Mirando City, will include new right-of-way, laying new track, etc. $4,000,000. C. S. Kirkpatrick, ch. engr.

Tex., San Saba—San Saba Conservation & Recl. Dist. 1, plans election to vote on $1,500,000 bonds for system to irrigate 45,-000 acres. Dam to be rein.-con. according to tentative plans. J. S. Baker, San Saba, attorney. Noted Apr. 5.

California — City and County of San Francisco Co. plan extending municipal railway system from Judah, Cole and Carl Sts. to Ocean Beach. To exceed $25,000. M. M. O'Shaughnessy, city engr.

BIDS DESIRED

Kentucky—Louisville & Nashville R.R. Co., 10th St. and Bway., Louisville, receiving bids new road-bed, elimination of curves, trestles and steep grades on Muldraugh Hill, 30 mi. south of Louisville. $500,000. W. H. Courtenay, ch. engr.

CONTRACTS AWARDED

Ontario — Canadian Natl. Ry., London, plans to replace 60 mi. steel rails between Denfield and Wingham with 80 lb. rails. About 16 mi. will be done this fall by day labor. C. Forrester, London, engr.

Ontario—Toronto Transportation Comn., 35 Yonge St., Toronto, will lay street car tracks on Parliament St. from Winchester

Railways (Continued)

St to Bloor St. Viaduct, 1,200 ft. double track on wood ties and concrete base, stone block paving between tracks, steel trolley poles, by day labor. $90,000. H. H. Couzens, mgr.

Excavation, Drainage, Irrigation

PROPOSED WORK

Calif., Colusa.—See "Waterworks." .. ..

Calif., Fairoaks—Beach & Cox, plan 4 mi. canals, 11 ft. wide at top, 4 ft. at bottom, 2 ft. deep; 2 centrifugal pumps, 31.1 sec. ft. capacity, 12 ft. lift.

BIDS DESIRED

Wis., Belleville—Dane Co. Drainage Bd., Court House, Madison, taking bids 15,900 ft. 6-15 in. tile drain. P. H. Hintze, Court House, Madison, engr. Noted Aug. 23.

Tex., Harlingen—Oct. 22, by C. Brown, secy. Cameron Water Impvt. Dist. 1, dredging 8 mi. canal, 60,000 cu.yd. excav., etc. in Cameron Co. $25,000. A. Tamm, Harlingen, engr.

Ia., Ft. Dodge—Oct. 16 at office C. A. Snook, aud. Webster Co., open ditch and tile drains in Joint D.D. 315-156, Webster and Greene Counties, 8,900 cu.yd. excav., 116,560 lin.ft. 6-38 in. tile, etc. $171,030.

BIDS RECEIVED

Calif., Los Angeles—Harbor Comn., Byrne Bldg., dredging 640,000 cu.yd. at Berth 214, from Pan Pacific Constr. Co., Los Angeles, $0.1287 per yd.

CONTRACTS AWARDED

Miss., Yazoo City—Silver Creek D. D., Yazoo, Sharkey and Humphreys Counties, 42 mi. open ditches, 1,250,000 cu.yd. earth excav., to Winston Dredging Co., Louisville, $0.101 per cu.yd. Engrs. est. $205,000.

Mo., Foley—Sandy Creek D.D., 1 story, 16 x 24 ft. pumping station, 145 hp. engine and 7,500 g.p.m. pump, to Fairbanks-Morse Co., 8th and Spruce Sts., St. Louis. Noted Sept. 6.

Calif., Macdoel—Butte Valley Irrigation Dist., 21 mi. canals, 22 mi. laterals, 6 mi. drains, 1,100 ft. 42 in. wood stave pipe, etc., to C. Thompson & Heuser-Packard Co., Loew State Bldg., Los Angeles. Noted Sept. 20.

Calif., Yuba City—Recl. Dist. 1660, Sutter Co., to Olympian Dredging Co., 149 1st St., San Francisco, 323,000 cu.yd. clamshell and team earthwork $0.0993, 42,000 cu.yd. suction dredging $0.50, two culverts $18,404 and $11,484 respectively. Noted Oct 4.

Streets and Roads

PROPOSED WORK

Vermont—Dept. Highways, Montpelier, plans gravel surfacing 2.02 mi. highway in Rutland Co., Project 45, $30,957; bridge in Essex Co., Project 47, $14,157. T. W. Dix, ch. engr.

Conn., Warehouse Point—State Hy. Dept., Hartford, plans 5,000 ft. road, 20 ft., here. $75,000. J. A. MacDonald, state highway engr.

Pa., Franklin—Venango Co. voted $500,000 bonds for general road improvements. Engineer not announced.

N. J., Trenton—Pennsylvania R.R., Broad St. Sta., Phila., plans extending several streets at Clinton St. Station, here. $50,000. A. B. Temple, Broad St. Sta., Phila., engr.

W. Va., Charleston—Union Dist., Kanawha Co., election Nov. 2, to vote on $100,000 bonds constructing 5½ mi. Dunbar-Sattes Rd. F. G. Burdette, co. engr.

N. C., Lincolnton—Bd. Aldermen will receive bids until Oct. 18, for $40,000 street and sidewalk improvement bonds. R. E. Camp, clk.; adv. E. N.-R. Oct. 11.

Fla., Clearwater—Comrs. Pinellas Co., cancelled opening of bids Oct. 16, for paving Rds. 1, 2, 3, 4, 6, 7 and 8, pending sale of bonds Nov. 1. If bond sale is effected, bids for construction will probably be asked during latter part of November. C. E. Burleson, co. engr. Noted Sept. 13.

Miss., Carrollton—Bd. Supervs. Carroll Co., rejected bids Sept. 24, grading and gravel surfacing 8.047 mi. Federal Aid Project 148. Will readvertise. Noted Oct. 4.

Tennessee—State Dept. Hys. & Pub Wks., Nashville, having surveys made 18 mi. road from Covington to Shelby Co. line, Tipton Co., 18 ft. J. G. Creveling, comr.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, having surveys made 8 mi. highway between Dyersburg and Lauderdale Co. line, Dyer Co. J. G. Creveling, highway comr.

Tenn., Gallatin—Voted $50,000 bonds improving streets. B. H. Klyce, 4th and 1st Natl. Bank Bldg., Nashville, consult. engr. Noted Sept. 27.

Tenn., Monterey—City voted $40,000 bonds constructing various streets.

Kentucky—State Hy. Dept., Frankfort, plans constructing and surfacing 7.766 mi. Mannington-Crofton Lake Rd., State Project 2, Christian Co.

Kentucky—State Hy. Dept., Frankfort, plans constructing and surfacing 10 mi. Lexington-Covington Rd., State Project 5, Scott Co.; 12 mi. Lexington-Covington Rd., State Project 5, Grant Co.; 10.09 mi. Newport-Falmouth Rd., State Project 21, Sect. A, Campbell and Pendleton Counties; 3.16 mi. Newport-Falmouth Rd., State Project 21, Sect. B, Campbell Co.; 723 ft. street in City of Somerset, State Project 22, Sect. C, Pulaski Co.; 5.388 mi. Williamsburg-Jellico Rd., State Project 35, Whitley Co.; 2.83 mi. Owingsville-Sharpsburg Rd., State Project 61, Sect. A, Bath Co.; grading 11 mi. Richmond-McKee Rd., State Project 30, Sect. A, Madison Co. J. S. Boggs, state highway engr.

Ky., Louisville—Bd. Pub. Wks., City Hall, plans 20,000 lin.ft. sidewalks on Eastern Parkway, Brook St. and other streets. $40,000. F. Moss, secy.

O., Canton—Plans asphalt paving ½ mi. Spring Ave. N. E., 50 ft. $35,000. W. E. Sarver, City Bldg., engr.

O., Canton—Mark Hambelton Co., 507-12 Renkert Bldg., takes bids about Dec. 2, constructing brick gutters and asphalt surfacing ½ mi. 29th St., 30 ft. $35,000. W. E. Sarver, City Hall, engr.

O., Canton—F. A. McGowan, 1216 11th St., N. W., takes bids in spring improving ½ mi. Vassar Ave., N. W., 30 ft., asphalt. $30,000. W. E. Sarver, City Hall, engr.

O., Kenmore—Plans curbing, laying sidewalks and paving 3 mi. Corey Ave., 35 ft., brick or asphalt. $30,000.

O., Massillon—Plans asphalt paving ½ mi. South High St., 50 ft. $40,000. C. E. Rice, city engr.

O., Youngstown—See "Bridges."

Michigan—State Hy. Dept., Lansing, soon takes bids grading and surfacing 4 mi. State Trunk Line Rd. 23-10, Sect. B, Branch Co., also 4 mi. State Trunk Line Rd. 51-2, Sect. B, Ottawa Co., asphalt, concrete or bituminous concrete. F. F. Rogers, state comr.

Michigan—State Hy. Dept., Lansing, soon takes bids grading 20 mi. State Trunk Line Rd. 35-5, Sects. A and B, Marquette Co. A. F. Rogers, state comr.

Mich., Detroit—Plans prepared 15,100 sq. yd. 3½ in. sheet asphalt on 8 in. concrete on Kentucky, Marcus, Coplin and Glendale Aves., $81,740. G. Jerome, city engr.

Minnesota—State Hy. Dept., St. Paul, plans grading 11.24 mi. in Wabasha Co., Project 327, $254,724; hard surfacing 7.268 mi. in Stearns Co., Project 328, $293,593; grading 8.1 mi. in Morrison Co., Project 334, $48,070. State Hy. Dept., St. Paul, engrs.

Kan., Independence—Montgomery Co. rejected bids grading and bituminous macadam surfacing 5.141 mi. Independence-Caney Rd., Federal Aid Project 121, Sect. C. Will readvertise. Noted Sept. 20.

Montana—State Hy. Dept., Helena, plans gravel surfacing 16.5 mi. Federal Aid Project 182, Cascade Co. $116,611. (Federal Government pays $61,851.)

Ark., Ashdown—Little River Co. Rd. Dist. 9, soon takes bids grading, gravel surfacing, etc. 9 mi. road.

Tex., Alpine—Brewster Co. making plans grading and gravel surfacing 12 mi. Robert E. Lee Highway. $150,000. A. L. White, Alpine, engr.

Tex., Angleton—Brazoria Co. soon takes bids shell surfacing Highway 19, 16 ft., $44,000; 5.6 mi. State Highway 19 in Rd. Dist. 20, 16 ft., $40,000. E. N. Gustafson, Angleton, co. engr.

Tex., Bay City—Matagorda Co. soon takes bids grading and gravel surfacing 4.85 mi. road connecting Bay City with road partly graveled, 16 ft. $46,000. E. N. Gustafson, Angleton, engr.

Tex., Belleville—Austin Co. making plans grading, gravel surfacing and bridging 9.2 mi. State Highway 36, 16 ft. $150,000. State Hy. Comn., Austin, appropriated $75,000. W. I. Hill, co. judge. Engineer not selected.

Tex., Brownsville—Cameron Co. election soon to vote on $400,000 bonds grading and surfacing Brownsville-Point Isabel Rd. W. O. Washington, Brownsville, engr.

Tex., Cameron—Milan Co. voted $100,000 bonds resurfacing 18 mi. highway from Add Hall to Minerva Oil Fields, 18 ft. also building 2 way bridge across Little River, near here. $225,000. Federal Government and State appropriated $125,000. Noted Sept. 6.

Tex., Carthage—Panola Co. plans hard surfacing State Highway 8 in. Beckville Dist. from Harrison Co. line south. $350,000.

Tex., Clarksville—Red River Co. making plans grading, gravel surfacing, etc., 3 mi. State Highway 5, 18 ft. $25,000. J. B. Rieman, co. engr.

Tex., Dalhart—Making plans paving with brick or bituminous 12 blocks Main, Rock Island, Denver and 5th Sts., various widths. $25,000. Engineer not announced.

Tex., Dallas—Making plans widening, paving, etc., 1 block Kendall St. from Commerce to Jackson Sts., 50 ft., rock asphalt bitulithic or brick on concrete base, to exceed $25,000.

Tex., Dallas—Dallas Ry. Co., Interurban Bldg., had plans prepared 15 blocks trackage paving, etc., Oak Cliff crosstown line. $75,000-$100,000. B. R. Brown, 318 Interurban Bldg., ch. engr.

Tex., Fairfield—Freestone Co. election soon to vote on $750,000 bonds highway improvements incl. surfacing and bridge across Navasota River. J. A. Roper, co. judge.

Tex., Floresville—Wilson Co. making surveys bituminous surfacing 50 mi. highway, 18 ft. $1,000,000. F. E. Hess, 310 Medical Arts Bldg., Dallas, engr.

Tex., Ft. Worth—H. B. Church, Glen Garden, plans graveling, curbing and guttering, etc., various streets. $25,000. Under supervision D. L. Lewis, city engr.

Tex., Ft. Worth—C. R. Vickery, F. & M. Bldg., making plans graveling, curbing and guttering, etc., various streets in Greenland Hills, to exceed $25,000. Under supervision D. L. Lewis, city engr.

Tex., Gonzales—Gonzales Co. election Nov. 3, to vote on $125,000 bonds, grading and gravel surfacing Nixon-Smiley Section-Glacier-to-Gulf Highway. J. G. Irby, co. engr.

Tex., Hondo—Medina Co. soon takes bids grading, gravel surfacing and bituminous topping 2.7 mi. State Highway 3, 18 ft. $47,000. A. Y. Walton, co. engr.

Tex., Jasper—Jasper Co. soon takes bids gravel surfacing State Highway 7, 16 ft. $65,000. C. P. Hunter, co. engr. Noted Sept. 6.

Tex., Kountze—Hardin Co. soon takes bids grading, gravel surfacing and bridging 11.2 mi. State Highway 40, 16 ft. $101,800. G. C. Brown, co. engr.

Tex., Pearsall—Frio Co. making plans hard surfacing Rd. Dist. 4, from Dilley to Dimmitt Co. line. $110,000. R. E. Kellmer, Pearsall, engr.

Tex., Pecos—Reeves Co. making plans grading and gravel surfacing 4.54 mi. State Highway 27, 16 ft. $30,324. A. J. Adcock, Balmorhea, co. engr.

Tex., Riogrande—Starr Co. soon takes bids grading and gravel surfacing 13.2 mi. State Highway 12 B, 16 ft. $109,000. P. S. Devine, Pharr, co. engr.

Tex., Rio Grande City—Starr Co. soon takes bids grading, gravel surfacing, etc. 17.58 mi. State Highway 12-B, 18 ft. $197,400. Noted Aug. 16.

Tex., Rock Springs—Edwards Co. making plans grading and gravel surfacing 12 mi. State Highway 41, 16 ft. $120,000. State Hy. Comn., Austin, appropriated $60,000. W. E. Simpson Co., Natl. Bank of Commerce Bldg., San Antonio, engrs.

Tex., San Antonio—Election first week in December to vote on $250,000 bonds for opening new streets and widening old ones; $450,000 bonds general street paving in business section, etc. D. D. Harrigan, city engr.

Idaho—State Hy. Dept., Boise, plans paving 14 mi. Federal Aid Project 70, Miami Co., concrete, bituminous concrete or brick, $551,529. (Federal Government pays $255,788.)

Washington—State Hy. Dept., Olympia, lets contract about Dec. 2, 4 mi. road between Columbia River Station and Rock Island. $200,000. J. Allen, superv. of highways.

Calif., Azusa—Voted $75,000 bonds paving various streets.

Calif., Bakersfield—Kern Co. takes bids about Oct. 25, paving road from Arvin to Weed Patch and Di Giorgio Farms, 18½ ft.,

Streets and Roads (Continued)

2 in. asphaltic concrete on 4 in. asphaltic concrete. To exceed $250,000. P. E. Kressly, H. W. Hellman Bldg., Los Angeles, engr.

Calif., Colfax—Voted $25,000 bonds concrete paving streets connecting with State Highway. Noted Sept. 13.

Calif., Fresno—Had plans prepared grading, paving, etc., McKinley Ave., 182,530 sq.ft. grading, 144,798 sq.ft. 3½ in. asphaltic concrete with 1½ in. warrenite surface, 25,132 sq.ft. cement sidewalks, etc.; curbing and laying sidewalks on portions of Wishon, North Van Ness and College Ave., 603 lin.ft. curb, 23,569 sq.ft. cement walks, etc. W. Stranahan, city engr. Noted Sept. 13.

Calif., Fresno—Had plans prepared improving Fresno Ave. between Belmont and Olive Aves., 2,640 lin.ft. curb, 2,640 lin.ft. walks, 2,640 lin.ft. 6 in. concrete; Hedges Ave. between Van Ness and Calaveras Sts., 2,640 lin.ft. 1½ in. warrenite on 2½ in. asphaltic concrete, 5,380 lin.ft. curb, 5,280 lin.ft. walks. W. Stranahan, city engr.

Calif., Los Angeles—Plans to construct Mulholland Scenic Highway, along crest of Santa Monica Mts., between Chenango Pass and Calabasas. $1,000,000. J. A. Griffin, city engr.

Calif., San Diego—Had plans prepared improving 24th, 25th and B Sts., 253,820 sq. ft. 1½ in. asphaltic concrete on 2½ in. bituminous, etc.; Louisiana St., between Upas and Lincoln Sts., 139,577 sq.ft. 1½ in. asphaltic concrete on 3 in. bituminous, etc. F. A. Rhodes, city engr.

Calif., San Francisco—Plans widening and improving Virginia Ave. between Mission and Coleridge Sts. $64,000. M. M. O'Shaughnessy, city engr.

Calif., Santa Barbara — Santa Barbara Co. defeated $200,000 bonds constructing Harris-Lompoc Rd. Noted Aug. 16.

Calif., Santa Clara—Plans paving various streets. To exceed $25,000. H. B. Fisher, Growers Bank Bldg., San Jose, engr.

Calif., Santa Cruz—Santa Cruz Co. had plans prepared improving Capitola-Soquel Rd., Soquel Rd. Dist., 61,005 sq.ft. oil macadam, re-oiling 43,272 sq.ft. existing pavement, etc.; Coast Rd., Seaside Dist., 236,175 sq.ft. oil macadam, etc. L. Bowman, co. surv.

Ont., Richmond Hill—Soon takes bids curbing, guttering and paving 6,000 sq.yd. Yonge St., bituminous concrete on concrete. $30,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS DESIRED

N. Y., Brooklyn—Oct. 17, by E. Riegelmann, boro pres., Boro Hall, paving 77th St. from Narrow Ave. to Ridge Rd., 77th St. from 17th to 18th Aves., Douglass, East 14th, East 19th, Suydam, West 27th, 46th and 83rd Sts.; grading, curbing and flagging East 19th and West 21st Sts.; regrading and paving Kingston Ave.

N. Y., Long Island City—Oct. 15, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing and laying sidewalks on Alpha Pl., 117th St., Hayes, Way and Jackson Aves.; grading Anable Ave. and Mary St.; paving 87th Rd., Hayes, and 97th Aves. 103rd, Hallett, 49th and 117th Sts.; grading and paving Linden St., bituminous macadam; grading, curbing, laying sidewalks and paving Linden St., asphalt; recurbing and laying sidewalks on Prospect Ave.; paving Woodside Ave., asphalt; grading and sewer basins and paving 79th St.

Pa., Phila.—Oct. 16, by Dept. Pub. Wks., asphalt pavements on Bigler, Sydenham, 16th, Columbia, Pratt and 17th Sts., Schedule A; granite block pavements on 49th St., Schedule B; central mixed concrete, vitr. paving blocks, wood blocks and gravel for highway repairs, Schedule C; steel fabric for League Island Park bathing beach, Schedule D; lumber, Schedule E. F. H. Caven, dir. pub. wks.

Md., Baltimore—Oct. 17, by Bd. Awards grading, curbing and paving with sheet asphalt, concrete and Hillside vitr. brick on concrete streets in Contr. 245-OCOANA, $45,000; 22,170 sq.yd. asphalt paving on streets in Contr. 246-OANA, $65,000. R. K. Compton, chn. paving comn.

W. Va., Charleston—Oct. 12, by B. A. Wise, city mgr., grading, curbing, paving, repaving and resurfacing Oak, Walnut, Gardner, Clay, Park, 1st and 6th Aves.; Pine, Oney, Birch, 1st, Hunt, 2nd, North Rand, Garden, Red Oak, Fayette, Ross, Bream, Broad, Chilton, Donnally, Brooks and Quarrier Sts.; Highland and Crescent Rds.; Piedmont Rd. from Capitol to Broad Sts. and from California Ave. to intersection of Kanawha St. and Malden Rd.; Springdale, Summit and Edgewood Drives; Columbia Blvd.; 7 alleys; Edgewood Ave. from north corner lot 1. Block A to Beech Ave., and from Highland Rd. to Grace St.; work involves 55,000 sq.yd., grading and paving.

S. C., Cheraw—Oct. 30, at office L. A. Melklejohn, mayor, 40,000 sq.yd. asphalt or other pavement, etc. Gilbert C. White Co., Durham, N. C., engrs.; adv. E. N.-R. Oct. 11.

S. C., York—Oct. 16, by Comrs. York Co., at office of T. B. Spratt, engr., 1st Trust Co., Ft. Mill, improving 6.4 mi. Federal Aid Project 216, from point near Ft. Mill to North Carolina line, 39,246 cu.yd. earth excav., 13,834 cu.yd. topsoil, 5,693 cu.yd. disintegrated granite surfacing, 4,035 lb. reinforcing, etc., $32,000; rein.-con. bridge over Steel Creek, Federal Aid Project 216, 47,066 lb. reinforcing, etc. $12,000.

Fla., Gainesville—Oct. 18 by Bd. Bond Trustees, Special Rd. and Bridge Dist. 1, Alachua Co., grading Dist. Rd. 7, Orange Heights to Putnam Co. line, in Mellose, 16,000 cu.yd. excav.; Dist. Rd. 1 between Gainesville and Putnam Co. line via Hawthorne, 169,000 sq.yd. scarifying and reshaping, 169,900 sq.yd. surface treatment. A. B. Gross, dist. engr.

Fla., Sebring—Oct. 14, by Highlands Co., grading 7 mi. Sick Island-Kissimee River Rd., 16 ft. $40,000. Former bids rejected. Peacock & Hood, Sebring, engr. Noted Sept. 20.

Fla., Tampa—Oct. 16, grading, paving and curbing 10th, Louisiana and Arlington Aves., 9,350 sq.yd. 2½ in. asphalt blocks, 6,500 lin.ft. concrete curbing. $25,000. R. D. Martin, city engr.

Louisiana — State Hy. Dept., Reymond Bldg., Batton Rouge, taking bids constructing road and furnishing gravel for 5.904 mi. Federal Aid Project 137, St. Francisville-Baton Rouge Highway, 3,700 cu.yd. washed gravel and 7,400 cu.yd. sand clay gravel, also 7.029 mi. Federal Aid Project 138, St. Francisville-Baton Rouge Highway, 4,405 cu.yd. washed gravel and 8,810 cu.yd. sand clay gravel, both East Feliciana Parish. J. M. Fourmy, ch. engr.

Louisiana—Oct. 16, by State Hy. Comn., Reymond Bldg., Baton Rouge, 10 mi. State Project 373, Sect. A, Covington-Franklinton Highway, Tammany Parish, also furnishing 9,070 cu.yd. washed gravel or 12,080 cu.yd. sand clay gravel. J. M. Fourmy, ch. engr.

La., Independence — Oct. 16, by Mayor and Bd. Aldermen, grading and gravel surfacing 5.7 mi. streets, 12,500 cu.yd. earth embankment, etc. I. Stafford, clk.

La., Shreveport—See "Miscellaneous."

O., Steubenville—Oct. 16, by Jefferson Co., macadamiping 3.134 mi. Hammondsville-Knoxville Intercounty Highway, 16 ft. $76,809. J. N. Leech, Court House, engr. Noted Sept. 13.

Ind., Evansville—Oct. 15, by Bd. City Comrs., cement paving 40-50 blocks. To exceed $25,000.

Michigan—Oct. 16, by State Hy. Dept., Lansing, grading and surfacing 7.711 mi. State Trunk Line Rd. 16-3, Eaton Co., 90,476 sq.yd. asphalt, concrete or bituminous concrete, or 85,952 sq.yd. asphalt on black base. Noted Oct. 4.

Michigan—Oct. 18, by State Hy. Dept., Lansing, grading and surfacing 1.11 mi. State Trunk Line Rd. 51-6, Ottawa Co., 7,084 cu.yd. excav., 13,173 sq.yd. asphalt, concrete or bituminous concrete. F. F. Rogers, state comr.

Illinois—Oct. 17, by Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, paving 127.64 mi. incl. 115.67 mi. 18 ft. pavement and 11.97 mi. 18 and 9 ft. widening pavement, concrete, 4 in. monolithic and 4 in. bituminous filled brick, bituminous concrete with or without binder course; grading 17.31 mi. incl. 708,605 cu.yd. excav. and 2,123 cu.yd. concrete. C. H. Older, ch. highway engr.

Ill., Winnetka—Oct. 16 by Bd. Local Impvts., 12,000 sq.yd. rein.-con. paving, incl. drainage, catchbasins, etc. Windes & Marsh, 598 Birch St., engrs.

Ia., Sioux City — Oct. 16, by Auditor Woodbury Co., grading 2.61 mi. Oto-Climbing Hill Rd., 26 ft., 85,247 cu.yd. excav., etc., $25,000. J. C. McLean, co. engr.

Tex., Corsicana — A. P. Mays, judge Navarro Co. receiving bids scarifying and surfacing with Texaco asphalt 8 mi. Oil Field Rd., 18 ft. $30,000. J. M. Young, K. of P. Bldg., engr.

Tex., Ft. Worth—Oct. 16, by City Comn., paving ,etc., Vickery Blvd. and Ave. F, 16,300 sq.yd. bituminous on 5 in. concrete, 3,170 cu.yd. excav. $40,000. D. L. Lewis, city engr.

Tex., Graham — City Com. taking bids paving with brick and macadam, curbing and guttering, etc., Elm St. from square to Union Station, to exceed $25,000. Elrod Eng. Co., 3206 Elm St., Dallas, engrs.

Tex., Hondo—Nov. 5, by R. J. Noonan, judge Medina Co., grading, gravel surfacing, etc., 2 mi. highway, 18 ft., $28,000; 3 mi. highway, 18 ft., $43,000; 2 mi. State Highway 3, Sect. E, 18 ft., $28,000. Walton & Arneson, 418 Gunter Bldg., San Antonio, engrs.

Tex., Jefferson—Oct. 31, by E. B. Lewis, judge Marion Co., grading and surfacing with gravel and clay 14.42 mi. State Highway 49, Federal Aid Project 364, 16 ft. $148,600. T. B. Warden, co. engr.

Tex., Marshall—Oct. 23, by J. W. Scott, judge Harrison Co., grading 7.5 mi. La Goves Chapel Rd., 22 ft. roadbed; 10.1 mi. Hynsons Springs Rd., 22 ft. roadbed; 5.8 mi. Noonday Rd., 22 ft. roadbed. Gravel surfacing will be let later. W. J. Warren, co. engr.

Okla., Wewoka—Oct. 19, by D. R. Fraser, city clk., grading and paving 11 blocks Main, Wewoka, Apple and Okfushey Sts., 27,100 sq.yd. vertical fibre brick, 11,000 lin. ft. curbing, 9,000 cu.yd. excav. $137,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Sept. 13.

Colorado—Oct. 16, by State Hy. Dept., Denver, concrete paving 1.014 mi. Denver-Boulder Rd., Federal Aid Project 251, Boulder Co., 18 ft., $36,256; 3.995 mi. Denver-Colorado Springs Rd., Federal Aid Project 230 B, Douglas Co., 18 ft., $154,484; concrete paving and grade separation 0.852 mi. Federal Aid Project 230 A, Douglas Co., $146,733. Alternate bids on bituminous surfacing on concrete. L. D. Blauvelt, State Office Bldg., Denver, highway engr.

New Mexico—Oct. 29, by State Hy. Comn., Santa Fe, grading and surfacing 13.333 mi. road from Cap Rock east. Federal Aid Project 30-A, Lea Co., 18,603 cu.yd. Class 1 excav., 4,302 cu.yd. Class 2 excav., 23,929 cu.yd. Class 1 borrow, 27,841 cu.yd. two course crushed caliche, etc.; 56.907 mi. Gladstone-Clayton Rd., Federal Aid Project 58, Union Co., 2,120 cu.yd. Class 1 excav., 25,104 cu.yd. two course crushed caliche, etc.; 26.708 mi. Clayton-Nara Visa Rd., Federal Aid Project 59, Union Co., 42,013 cu.yd. two course crushed caliche, 9,863 cu.yd. soft caliche or clay plating, etc. J. A. French, state highway engr.

Idaho—Oct. 15 by P. E. Oxley, dist. engr., Lewiston, 5.91 mi. grading and surfacing in Latah Co., 40,400 cu.yd. earth, 5,900 cu. yd. solid and 4,500 cu.yd. loose rock excav., 12,340 cu.yd. crushed rock, etc. $80,000. Director of Highways, Boise, engr.

Ore., Portland—Oct. 17, by Comrs. Multnomah Co., improving Base Line Rd. from point near Beaver Creek to upper Sandy Bridge 80. C. Rudeen, chn.

California—Oct. 29, by State Hy. Comn., Sacramento, surfacing with gravel or broken stone 11.1 mi. road between point 2 mi. south of Weaversville and Tom Long Gulch, Trinity Co. R. M. Morton, state highway engr. Noted Oct. 4.

Calif., Compton — Oct. 16, by City Trustees, improving Tamarind and Reeve Sts., etc., 199,360 sq.ft. 5 in. concrete pavement, 199,360 sq.ft. grading, 55,160 sq.ft. walks, 11,050 lin.ft. curb, etc.; Palm Ave., 23,220 sq.ft. grading, 23,220 sq.ft. 5 in. concrete pavement, etc.; Almond Ave., 36,375 sq.ft. grading, 16,370 sq.ft. 5 in. concrete, 19,006 sq.ft. 1½ in. willite on 3½ in. bituminous, etc. E. M. Lynch, Central Bldg., Los Angeles, engr.

Calif., San Luis Obispo—Oct. 15, concrete paving 100,000 sq.ft. Osos St., etc., to exceed $25,000. W. B. Roselip, city engr.

Calif., Ventura — Oct. 25, by Supervs. Ventura Co., paving Santa Paula Ojai Rd. from Sulphur Springs to Sulphur Mt. Rd., 348,224 sq.ft. asphaltic concrete or cement concrete, 6,000 cu.yd. excav., 21,764 lin.ft. roll and shape.

BIDS RECEIVED

N. Y., Brooklyn — Park Bd., Municipal Bldg., New York, Oct. 4, grading, curbing, sheet asphalt paving, etc., main roadway of Eastern Parkway from Bedford to Albany Aves., here, from Cleveland Trinidad Paving Co., Flushing, $138,339.

Pa., Phila.—Dept. Pub. Wks., Oct. 2, asphalt pavement on Camac and Cassimer Sts., Schedule A, from Barber Asphalt Co., 239 North 30th St., $4,736 and $2,620 respectively; 27,020 sq.yd. concrete floor and 1,500 ft. curb for West League Island Park bathing beach, Schedule C, from E. Fay

Streets and Roads (Continued)

& Son, 2 Mole St., $33,270; furnishing fuel oil burning equipment, Schedule D, from Bethlehem Ship Corp., Weidner Bldg., $6,475; installing fuel oil burning equipment, Schedule E, from J. B. McHugh, Jr., 892 Markoe St., $7,800. Noted Sept. 27.

Florida—State Hy. Dept., Tallahassee, clearing and paving 0.701 mi. Project 37A, Alachua Co., sheet asphalt, from U. P. McDonald Constr. Co., Tampa, $25,134; 3.261 mi. Project 37C, Alachua Co., bituminous macadam, from F. W. Long & Co., Stockton St., Jacksonville, $131,530; 2.14 mi. Project 37D, Alachua Co., concrete, from Florida Drainage Constr. Co., Palatka, $129,657; 16.169 mi. Project 40A, Brevard Co., concrete, from C. F. Lytle, Jacksonville, $405,952; 16.24 mi. Project 597, Volusia Co. and 6.727 mi. Project 40D, Brevard Co., both concrete, from J. Y. Wilson, Clark Bldg., Jacksonville, $347,281 and $144,348 respectively. Noted Sept. 6.

O., Cleveland—Improving (1) Continental Ave. (2) Crestwood Ave., (1) and (2) involve 9,380 lin.ft. stone curb and 4 in. tile gutter, 15,190 cu.yd. earth excav., 11,500 sq.yd. asphalt on concrete, (3) Liberty Row (4) Vermont Ave., (3) and (4) involve 3,200 cu.yd. earth excav., 1,800 sq. yd. asphalt on concrete, from Baldwin Bros., 4500 Euclid Ave., (1) $39,445 (2) $30,762 (4) $14,683; Bentley Bros., 1836 Euclid Ave., (3) $39,525. Noted Sept. 20.

Michigan—State Hy. Dept., Lansing, grading and surfacing 4.896 mi. State Trunk Line Rd. 10-30, Iosco Co. 9,338 cu. yd. excav. and 46,292 sq.yd. gravel, from Hill & Belknap, East Tawas $57,535. Noted Sept. 27.

Michigan—State Hy. Dept., Lansing, grading and surfacing 5.696 mi. Federal Aid Project 89, Sect. D, Jackson Co., 22,622 cu.yd. excav. and 66,860 sq.yd. concrete, from Rockford Constr. Co., Rockford, O., $124,478. Noted Sept. 20.

Mich., Detroit—Grading and paving with 3½ in. sheet asphalt on 8 in. concrete from Detroit Asphalt Paving Co., 20 McGraw Bldg., 3,300 sq.yd. Anstell St., $19,745; 1,300 sq.yd. Edison Ave. $8,343; 4,000 sq.yd. Glenwood Ave. $23,724; 700 sq.yd. Knodell Ave. $4,189; 2,750 sq.yd. Marcus Ave., $16,457; 6,000 sq.yd. Ohio Ave. $35,039; 3,250 sq.yd. Sherbourne Rd. $16,232.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, concrete paving **5.13 mi. 3-12 Whiteside, means (5.13 mi. Route 3, Sect. 12 Whiteside Co.)** 5.13 mi. 3-12 Whiteside and 7.92 mi. 3-75 Randolph, from Cameron, Joyce, Smith, Elder Co., Keokuk, Ia., $102,336 and $203,792 respectively; 4.32 mi. 3-39 McDonough, from McElwee & Rogy, Peoria, $99,074; 3.1 mi. 3-51 Greene, from J. Kesl & Son, Edwardsville, $80,845; 6.8 mi. 3-74 Randolph, from Mautz & Oren, Effingham, $156,351; 2.79 mi. 3-56 Greene from Nelson Bros. & Co., Jerseyville, $56,206; 3.83 mi. 3-81 Morgan, from E. J. Eiff, Quincy, $102,308; 3.71 mi. 19-27 McHenry, from C. P. Ernst Co., Chicago, $89,709; 22.21 mi. 8-27, 28, 29 and 30 McLean, from McMahon Constr. Co., Rochester, Ind., $399,995; 4.15 mi. 28-10 Henry, from R. F. Conway Co., 133 West Washington St., Chicago, $99,173; 9.85 mi. 16-14, 14B and 15 (incl. 4 bridges with fourteen 30 ft. spans) Shelby-Christian, from Indiana Road Paving Co., Rochester, Ind., $223,311; grading 59,431 yd. 3-25A Mercer and 43,262 yd. 9-26A, Hancock, from Lord & Talbott, Monmouth, $29,139 and $25,671 respectively; 77,253 yd. 2-35A Winnebago and Ogle from J. S. Burch, Madison, Wis., $44,985; 95,877 yd. 2-38A and 42,186 yd. 2-39A both Ogle Co., from E. M. Roche, Freeport, $63,884 and $26,091 respectively; 139,816 yd. 3-11A, 13A and 14A, Rock Island and Whiteside, from Lamoreaux Bros., St. Louis, Mo., $46,890; 183,581 yd. 24-11A Tazewell from I. D. Lain, Bloomington, $101,584; 107,351 yd. 19-24A and 25A Lake and McHenry from H. H. Enbody & Son, 272 South 4th St., Aurora, $62,600; 123,832 yd. 31-10A, Brown-Schuyler, and 44,642 yd. 30-11A Stark from Cameron Joyce & Co., Keokuk, Ia., $65,739 and $22,565; 103,133 yd. 30-14A Stark-Henry from E. P. Olson, 2901 Monterey St., St. Joseph, Mo., $39,543. Noted Sept. 20.

Minnesota — State Hy. Dept., St. Paul, Sept. 26. State Project 6-39, Sect. 1, Federal Aid Project 332, 190,000 cu.yd. excav., Div. A, from M. Barrett, St. Cloud, $32,719, Div. B, from S. Enebak, Warren, $29,788; State Project 2-24, Federal Aid Project 129, between Moorhead and Glyndon, 20,500 cu.yd. gravel surfacing, from Stevens Bros., Piedmont Bldg., St. Paul, $46,580. This corrects report in Oct. 4 issue.

N. D., Wahpeton—Richland Co. gravel surfacing 8 mi. Federal Aid Project 71, Wyndmere-Wahpeton Rd., from Cudd & Hidlebaugh, Foxhome, Minn., $39,236.

Colorado—State Hy. Dept., Denver, paving and gravel surfacing 2.825 mi. Federal Aid Project 222C, Boulder Co. (alternate bids on paving), plain concrete, from R. M. Larsen, 1309 Kalamath St., Denver, $122,667; Topeka pavement from Standard Eng. & Constr. Co., 518 E. & C. Bldg., Denver, $150,050; warrenite bitulithic, from Stamey-Mackey Constr. Co., Trinidad, $167,481.

Number of Construction Projects Reported in Construction News in the First Half of 1923

	New England	Middle Atlantic	Southern	Middle West	West of Mississippi	Western	Total
Proposed Work	521	1,413	828	1,607	1,619	1,196	7,184
Bids Desired	141	1,013	441	1 095	765	325	3,780
Bids Received	29	340	82	249	169	249	1,118
Contracts Let	314	939	412	1,154	1,005	538	4,362
Total	1,005	3,705	1,763	4,105	3,558	2,308	16,444

Number of Construction Projects Reported in Construction News in the First Half of 1922

	New England	Middle Atlantic	Southern	Middle West	West of Mississippi	Western	Total
Proposed Work	319	1,160	706	1 521	1,020	589	5,315
Bids Desired	154	999	571	1,365	741	251	4,081
Bids Received	33	233	99	236	167	122	890
Contracts Let	287	1,028	411	981	753	435	3,895
Total	793	3,420	1,787	4,103	2,681	1,397	14,181

CONTRACTS AWARDED

Conn., Hartford—Widening Albany Ave. on both sides, resurfacing entire street with 3 in. asphalt on present base and placing new 3 in. asphalt on 6 in. concrete base, to E. Balf & Co., 14 Haynes St. Engrs. est. $25,000.

Conn., Rockville—See "Miscellaneous."

New York—State Hy. Dept., Albany, constructing, completing and reconstructing 8.55 mi. Highway 1681, Otsego Co., 3.35 mi. Highway 8157, Cortland Co., and 6.8 mi. Highway 8106, Seneca Co., to Dale Eng. Co., Mann Bldg., Utica, $448,112, $148,997 and $211,975 respectively; 0.99 mi. Highways 1651 and 5683, Livingston Co., to Oliver Costich Co., Inc., Exchange Pl. Bldg., Rochester, $60,702; 1.98 mi. Highway 5129, Allegany Co., to W. L. Collins, Hornell, $79,083; 0.34 mi. Highway 198, Albany Co., to H. W. Roberts & Co., Utica, $9,931; 3.28 mi. Highway 8158, Suffolk Co., to Heling Contg. Corp., Utica, $149,168; 3.35 mi. Highway 231, Ulster Co., to A. S. Johnson Corp., Long Island City, $120,537; 0.64 mi. Highway 5050, Dutchess Co., to Mascetti & Holley, 561 South Main St., Torrington, Conn., $36,879; 4.39 mi. Highway 8159, Yates Co., to P. H. Murray, Cutler Bldg., Rochester, $224,160; 4.01 mi. Highway 1677, Dutchess Co., to Troy Paving Co., 418 Gay Blvd. St., Troy, $262,619. Noted Sept. 27.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, grading, curbing, flagging and construting vamps and steps on Stillwell Ave., West 12th, West 19th, West 31st, West 36th, West 15th, West 16th, West 24th, West 27th, West 28th, West 29th, West 35th and West 37th Sts., to J. J. Guinan Contg. Co., 2314 Gravesend Ave., $631,673. Noted Oct. 4.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, repaving Calyer and Fulton Sts., asphalt, to Sicilian Asphalt Paving Co., 41 Park Row, New York, $3,092 and $41,474 respectively; Hinsdale Ave. and Park Pl., asphalt, to Cleveland Trinidad Paving Co., Flushing, $33,078 and $11,753 respectively; 73rd and 86th Sts., asphalt, to Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., $11,164 and $53,777 respectively; 73rd St., grade 1 granite, to Galco Contg. Co., Inc., 745 Dean St., $6,437; grading, curbing and flagging West 8th St., to W. J. McHale Contg. Co., 1250 Jefferson St., $3,277. Noted Sept. 27.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., repaving East 18th St., sheet asphalt, to Sicilian Asphalt Paving Co., 41 Park Row, $45,789; 19th, 58th, 67th and East 81st Sts., sheet asphalt, to Uvalde Asphalt Paving Co., 1 Bway., $15,509, $13,745, $9,523 and $19,143 respectively; 83rd St., sheet asphalt, to Cleveland Trinidad Paving Co., Flushing, $10,602; 90th and 98th Sts., sheet asphalt, to Brusstar Constr. Co., Harlem River and 150th St., $36,647 and $11,088 respectively; 138th St., granite block, to Burnside Contg. Co., 270 Burnside Ave., $19,929. Noted Oct. 4.

N. Y., Niagara Falls—Paving Pierce Ave., sheet asphalt, and 8th St., vertical fibre brick, to J. F. McKinney Corp., Gluck Bldg., $49,566 and $13,432 respectively.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete repaving Grove Ave., to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $60,808; concrete curbing and guttering 4 ft. wide on south side of Lincoln Ave., to F. Leedecke, $4,734. Noted Sept. 20.

N. Y., Warsaw—Letchworth Park Comn. of Amer. Scenic and Historic Preservation Society, Wyoming Co. Natl. Bank, highway in Letchworth Park, Wyoming Co., to Sweeney & Boland, 310 Ellwanger and Barry Bldg., Rochester, $43,124. Noted Sept. 13.

Pennsylvania—State Hy. Dept., Harrisburg, Route 268, Greene Co., to Reed & Moore, Waynesburg, $39,209; Application 1467, Erie Co., to C. H. Fry Constr. Co., Cherry and 19th Sts., Erie, $110,629; Route 160, Berks Co., to Ambler-Davis Co., Harrison Bldg., Phila., $60,643. Noted Sept. 20.

Maryland—State Rds. Comn., Baltimore, concrete, paving 18,300 sq.yd. roads in Frederick Co., Contr. F-62, to Thomas, Bennett & Hunter, Westminster, $60,816. Noted Oct. 4.

Florida — State Rd. Dept., Tallahassee, grading and paving with concrete on stone 16.24 mi. road between New Smyrna and Brevard Co. line, Project 597, Volusia Co., 197,986 cu.yd. earth excav., 743 cu.yd. concrete, and 6.727 mi. road between Sta. 2615 plus 10 and Sta. 297 plus 25, Project 40 D, Brevard Co., 44,684 cu.yd. earth excav., 615 cu.yd. concrete, to J. Y. Wilson, Clark Bldg., Jacksonville, $347,281 and $144,348 respectively, 16.169 mi. between Sebastian River and Melbourne, Project 40 A, Brevard Co., 125,117 cu.yd. earth

Streets and Roads (Continued)

excav., 1,769 cu.yd. concrete, to C. F. Lytle, Jacksonville, $398,721; grading and paving with bituminous macadam on broken stone 3.261 mi. between Sta. 56 plus 80 and Sta. 229 Paynes Praire, Project 37 C, Alachua Co., 28,881 cu.yd. earth excav., 34,440 sq.yd. bituminous macadam, and 0.701 mi. between Gainesville Sta. 0 plus 00 and Sta. 37 plus 00, Project 37 A, Alachua Co., 7,790 cu.yd. earth excav., 7,400 sq.yd. bituminous macadam, to F. W. Long & Co., Realty Bldg., Jacksonville, $131,530 and $25,781 respectively; clearing, grading, dredged embankment and concrete surfacing 2.14 mi. between Sta. 229 plus 00 and Sta. 342 plus 00, Project 37 D, Alachua Co., 15,550 cu. yd. earth excav., 208 cu.yd. concrete, 285,907 cu.yd. dredged embankment, to Florida Drainage & Constr. Co., Palatka, $129,657. Noted Oct. 11.

Fla., Sebring—Highlands Co. to J. W. Farr, Wauchula, grading Lake Annie-Parker Island Rd., clearing $85 per acre, grading $0.48 per ch.yd.; to W. M. Durrance, Ft. Mead, grading Lake Jackson Rd., clearing $84 per acre, grading $0.3675 per cu.yd. Noted Sept. 20.

Miss., Belonzi—Grading, gravel surfacing, etc., 25 mi. road, to Greaves & Gadis, Bolton.

Miss., Brandon—Rankin Co. constructing 3.473 mi. gravel road between here and Plain, 18 ft., to Lawrence Constr. Co., Jackson, $74,589; 20.322 mi. gravel road between here and Pelahatchie, to McKeithen Constr. Co., Jackson, $209,361. Noted Sept. 20.

Miss., Water Valley—Yalobusha Co. constructing 12.493 mi. concrete and gravel road, Federal Aid Project 161, to Lawrence Nixon & Phillips, Jackson, $198,631. Noted Sept. 20.

La., Lake Charles—Grading and concrete paving 40,000 sq.yd. various streets, to S. Ritchie Lake Charles.

La., Minden—Grading and paving with gravel 2,700 ft. Dorchester Rd., to W. S. and W. D. Frasier, Minden, $25,646.

O., Akron—Bd. Pub. Serv., to T. E. McShaffrey Constr. Co., 171 South Forge St., improving North Main St., 4,960 lin.ft. stone curb $1.35 per lin.ft., 3,400 sq.yd. brick gutter $2.35, 53,600 sq.ft. sidewalk $0.22, 26,000 cu.yd. earth excav. $0.60, 16,800 sq. yd. Texaco asphalt $1.50, 20,200 sq.yd. 8 in. concrete base $2, total $146,465, also Brown St., 109,400 sq.ft. 4 in. cement sidewalk $0.23, 32,000 cu.yd. earth excav. $0.60, 33,800 sq.yd. Texaco asphalt $1.50, 41,800 sq. yd. 8 in. concrete base, etc., $2, total $271,905; to McAlonan Bros., 197 West Buchtel Ave., Glendale Ave., 20,260 sq.ft. 4 in. cement sidewalk $0.25, 8,360 sq.yd. vitr. brick $2.30, 8,360 sq.yd. 6 in. concrete base $1.60, etc., total $65,317. Noted Oct. 4.

O., Canton—Grading and concrete surfacing ½ mi. Elysian Way, 30 ft., to Allison & Harris Constr. Co., East Liverpool, $27,861. Engrs. est. $31,286.

O., Canton—Stark Co., curbing, laying sidewalks and paving ½ mi. 22nd St., N. W., 50 ft., also guttering and paving ½ mi. Rosewood Pl., 40 ft., both asphalt, to Garaux Bros., 415 9th St. S. W., $35,000 and $27,000 respectively.

O., Cleveland—Asphalt paving, etc., West 3rd and East 9th Sts., to Cleveland Trinidad Paving Co., The Arcade, $136,159; Seine Court, West 23rd and West 41st Sts., to Roehl Bros. Paving & Constr. Co., West 25th St. and Clark Ave., $3,050, $17,637 and $17,131 respectively; West 88th St., to Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, $17,762; Hood Ave., to W. E. McHugh, West 73rd St. and Wheeling & Lake Erie R.R., $20,350; Parkview Ave., to A. M. Pejsa Paving Co., 3161 Derbyshire Rd., $27,431; East 115th St., to Bentley Bros., Union Bldg., $15,252; Braddock Rd., to H. G. Herring, Pavers Exch., Society for Savings Bldg., $9,841; Rosecliff Rd., to Gould & Maybach, 16311 Saranec Rd., $12,607. Noted Oct. 4.

O., Cleveland — Cuyahoga Co. concrete paving Miner Rd., to Ohio Contg. Co., Newman-Stern Bldg., $45,500. Noted Sept. 27.

Ind., Jeffersonville—Clark Co., improving 1.5 mi. pike between Jeffersonville and Borden, known as Columbus A. Jackson Rd., to Jean & Nangle, Pekin. Engrs. est. $25,000.

Michigan — State Hy. Dept., Lansing, grading and surfacing 3.869 mi. State Trunk Line Rd. 13-48, Kent Co., to Vander Veen Constr. Co., 165 Lyons St., N. E., Grand Rapids, 17,711 cu.yd. excav. $0.60, 49.8 cu.yd. 1:2:4 and 145.9 cu.yd. 1:3:6 concrete, $20, 43,352 sq.yd. 7 in. rein.-con. pavement $1.25, total $72,903. Noted Sept. 20.

Ill., Belleville — St. Clair Co., rein.-con. paving 12,000 ft. East St. Louis-Brooklyn Rd., 14 ft., to Sternberg & Powell, 232 South Clark St., Chicago, $108,391. Engrs. est. $110,000.

Ia., Cherokee — Cherokee Co., grading primary roads, 98,503 cu.yd. excav., to A. L. Cook, Ottawa, Kan., $0.27 per cu.yd. Noted Sept. 27.

Ia., Williamsburg—For 24,500 sq.yd. 6 in. and 1,000 sq.yd. 7 in. limestone concrete pavement, to Wright Constr. Co., 211 Flynn Bldg., Des Moines, $61,420.

Minnesota—State Hy. Dept., St. Paul, 27 mi. State Project 4-27, Federal Aid Project 318, 344,000 cu.yd. excav., to Stevens Bros., Piedmont Bldg., St. Paul, $140,000; 16 mi. State Project 23-22, Federal Aid Project 243, 18,700 cu.yd. gravel surfacing, to C. Beyer, Willmar, $21,790. This corrects report in Oct. 4 issue.

S. D., Sioux Falls—Minnehaha Co., concrete paving 1 mi. road on west side of state prison to C. B. Atkinson Constr. Co., Brookings, $35,000.

N. D., Minot—Ward Co., gravel surfacing 15 mi. Federal Aid Project 85, 20,189 cu.yd. load, spread, compact, etc., 109,423 cu.yd. mile gravel haul, 20,189 cu.yd. screening, to Padgett Co., Lead, $34,256. Noted Sept. 13.

Mo., Sedalia — Mayor and City Clerk, grading and concrete paving 11,200 sq.yd. Washington Ave., to Bertman & Menefee, Sedalia, $2.35 per sq.yd. Noted Aug. 30.

Tex., Alpine—Brewster Co., gravel and caliche surfacing 15.7 mi. highway from here to Alterda, 18 ft., to Womack Constr. Co., Sherman, $72,119. Noted Oct. 4.

Tex., Ft. Worth—Improving Cherry, New York and Tyler Sts., to West Texas Constr. Co., Cotton Exch. Bldg., warrenite bitulithic on 5 in. base, $3.18 per sq.yd., curbing and guttering $1, excav. $0.90 and $250; improving 6th Ave. and Lee St., to General Constr. Co., Cotton Exch. Bldg., Uvalde rock asphalt on 5 in. base, $2.80, curbing and guttering $1, excav. $0.90 and $2.50.

Tex., Kaufman—Brick paving East Mulberry St., to Plains Paving Co., Staley Bldg., Wichita Falls, $25,000.

Tex., Marlin—Falls Co. gravel surfacing 6.98 mi. State Highway 44, Lott Dist., 18 ft., to P. M. Skinner, 5632 Reiger Ave., Dallas, $64,070. Noted Aug. 30.

Oklahoma—State Hy. Dept. Oklahoma City, grading and paving with Bates type concrete 26.23 mi. Meridian Hy. across Stephens Co., Federal Aid Projects 99, 102 and 102, 269,100 sq.yd. concrete, 75,000 cu. yd. excav., to Smith Bros. Co., Dallas, Tex. $707,098. Noted Sept. 13.

Okla., Waurika — Grading and paving various streets in districts 2 and 3, 57,243 sq.yd. vitr. brick, 9,328 lin.ft. curbing, 7,553 lin.ft. 6 in. gutter, 6,373 cu.yd. excav., to Cooke & Coleman, Ardmore, Okla., $123,443.

Washington—State Hy. Comn., Olympia, to Mohr Constr. Co., Spokane, paving Sunset Highway from Spokane west, Spokane Co., 3,520 sq.yd. crushed rock surfacing $2, 3,800 cu.yd. excav. $0.30, 12,260 cu.yd. loose rock $55, 15,180 cu.yd. solid rock $1.50, etc., total $42,526; State Rd. 22 from Letillion Bridge north, Stevens Co., 6,820 sq.yd. crushed rock surfacing, top, $2.10, 6,820 sq.yd. crushed rock base $2, 126,710 cu.yd. excav. $0.25, 17,610 cu.yd. loose rock $0.60, 10,490 cu.yd. solid rock $1.35, etc., total $98,040. Noted Sept. 13.

Wash., Everett — Concrete paving Hoyt Ave. from 19th to 8th St., 36 ft., to J. Webster Hoover, 1607 Hoyt St., Everett, $58,206. Engrs. est. $61,000.

Calif., Bakersfield—Paving Niles St. and portions of Sonora St., to Union Paving Co., Call Bldg., San Francisco, $67,500 and $60,120 respectively. Noted Sept. 13.

Calif., Glendale—City Trustees, improving Sycamore Canyon Rd., to Heuser-Packard Co. & Thompson, Loew State Bldg., Los Angeles, 8,711 lin.ft. grade $5, 31,988 sq.ft. gutter $0.25, 442,636 sq.ft. 1½ in. National on 4 in. asphaltic concrete $0.23, waterworks complete $17,640, total $188,650. Noted Sept. 13.

Calif., Glendale—To Heuser Packard Co. and Thompson, Loew State Bldg., Los Angeles, improving Colorado St., 538,989 sq.ft. grading $0.06, 19,473 sq.ft. gutter $0.25, 519,516 sq.ft. 1½ in. National on 4 in. asphaltic concrete $0.23, 23,452 sq.ft. concrete curb $0.50, 5,528 sq.ft. walks $0.1[illegible], waterworks $32,250, etc., total $215,780. Noted Oct. 4.

Calif., Los Angeles—Improving Ruthelen St. between 36th Pl. and Exposition Blvd., to W. Liddington, 420 East 60th St., total for grading $7,602, 159,317 sq.ft. concrete $0.205, 9,398 lin.ft. curb $0.52, 36,167 sq.ft. walks $0.195, sanitary sewer $9,850, etc., total $63,000.

Calif., Los Angeles—Paving, curbing and laying sidewalks on 1 mi. on Compton Ave. between Vernon Ave. and south city limits, to G. H. Oswald, 366 East 58th St., concrete pavement $0.23 per sq.ft., curb $0.70, sidewalk $0.25 per sq.ft., total $77,123. Noted Aug. 16.

Calif., Los Angeles—Los Angeles Co., grading, paving, etc. 21 mi. Palmdale Pallette Creek Rd., 76,483 sq.yd. disintegrated granite pavement, 100,293 sq.yd. 6 in. asphaltic concrete, etc., to Southwest Paving Co., Washington Bldg., $460,000. Noted Oct. 4.

Calif., Santa Cruz—Santa Cruz Co. improving Marks and Slaughter House Rds. et. al., 938 cu.yd. earth and 4,555 cu.yd. rock excav., etc., to J. L. Conner, P. O. Box 565, $27,694. Noted Oct. 4.

Calif., Stockton—Paving East Main and East Washington Sts., 191,911 sq.yd. asphalt, to J. E. Johnston, Savings & Loan Bank Bldg., $64,072. Noted Sept. 27.

Que., Montreal—Will pave with asphalt 15,718 ft. on Chateaubriand, Ray, Cuvillier, Leber, Mullins, Jardin, Dorchester, Bourget, St. Augustine, Alma, Dominion, Smith and Letourneau Sts., $235,991; 10,342 ft. concrete sidewalks on Park Ave., St. Lawrence Blvd., Letourneau, Clarke, Victoria, St. Denis Sts. $40,835; by day labor.

Ont., Toronto — To Warren Bituminous Paving Co., 54 University Ave., 14,000 sq.yd. bitulithic pavements on Welverleigh Blvd., Haslett, Ilesworth and Rhyl Aves., $56,604; to Kilmer & Barber, 24 Adelaide St., 7,000 sq.yd. asphalt on concrete on Lawlor Ave. and Wolverleigh Blvd., $29,163; to Constructing & Paving Co., Ltd., Confederation Life Bldg., 4,000 sq.yd. asphalt on concrete on Cinder and Stafford Aves., $16,066; to Comrs. Wks., City Hall, 6,500 sq.yd. asphalt on Elmer and Woodmount Aves., $30,223.

Ont., Toronto—See "Railways."

B. C., Point Grey—Paving 2¼ mi. various streets, 1 course 6 in. concrete, to Ritchie Supply Co., 1318 Granville St., Vancouver. $68,000.

Industrial Works

PROPOSED WORK

Conn., Bristol—Truden & Platt, Inc., 67 Prospect St., having plans prepared by Sperry & Buell, archts. and engrs., 175 Main St., 1 story, 60 x 70 ft. garage, brick and steel, plain foundation, Church St. $40,000.

Conn., Hartford—Capitol Furniture Co., rejected bids 3 story, 40 x 80 ft. storage building, rein.-con., plain foundation, Temple St. $40,000. Will readvertise. D. A. Guerriero, 1029 Main St., archt. Noted Aug. 9.

Conn., Hartford — J. A. Pilgard, 1026 Main St., plans rein.-con. and steel garage, plain foundation, Ann St. $400,000.

Conn., Hartford—B. A. Sellew, archt., 721 Main St., preparing plans 1 story, 90 x 90 ft., brick and steel garage, plain foundation, Walnut St. $40,000. Owners name withheld.

Conn., Meriden — Connecticut Light & Power Co. plans 3 story, rein.-con., brick and steel sub-station, Hanover St. $200,000. Private plans.

Conn., Middletown — M. Klingon, Colchester, had plans prepared by L. H. Goddard, 86 State St., New London, 3 story, 60 x 160 ft. warehouse and grain elevator, brick and steel, plain foundation, Berlin St., here. $40,000.

Conn., Waterbury—A. Genua, 73 Union St., having plans prepared by E. E. Benedict, 51 Leavenworth St., 2 story, 60 x 100 ft. garage, brick and steel, plain foundation, Jefferson St. $40,000.

N. Y., Addison—Dairymen's League c/o B. Whiteman, pres., Canisteo, having plans prepared shipping station, east of here. $40,000. C. H. Russell, c/o owner, construction engr.

Industrial Works (Continued)

N. Y., Buffalo—Pratt & Lambert having tentative plans prepared for plant addition, Dewitt St. $75,000. Engineer and architect not announced.

N. Y., Rochester—R. J. Strasenburgh Co. plans 4 story, 60 x 80 ft., brick and concrete plant addition, Exchange and Troup Sts. $50,000. Engineer and architect not announced.

N. Y., Salem — Acme Road Mchy. Co., Frankfort, having plans prepared by E. H. Cook, archt. and engr., Frankfort, 1 story, concrete and steel factory, plain foundation, Railroad Ave., here. $200,000.

Pennsylvania—Pittsburgh Terminal R.R. and Coal Co., Wabash Bldg., Pittsburgh, preparing plans concrete and steel substations and 22,000 volt transmission lines from here to Rook, Pa., and Horning W. Va.

Pa., Johnstown—Penn Overland Co., 713 Railroad St., plans 3 story and basement, 85 x 120 ft. rein.-con., brick and steel garage, Central Ave. $100,000.

N. C., Duke — Erwin Cotton Mills plan extensive improvements during next 12 months. Contract for 35,000 spindle denim mill building, No. 5, to J. L. Crouse, Greensboro. $500,000. Development includes 1 story daylight construction weave shed for 1,152 looms and modern village. Total cost $2,500,000. Also plans enlarging bleachery at West Durham. J. E. Sirrine & Co., South Main St., Greenville, S. C., engrs.

Ga., Atlanta—Kingan & Co., West Maryland St., Indianapolis, Ind., plans packing house, here. $250,000-$300,000. Private plans.

Ga., Dalton — Amer. Thread Co. plans 30,000 spindle thread mill, store house, boiler house and mill village on 540 acre site, here. Lockwood, Greene & Co., Healy Bldg., Atlanta, engrs.

Fla., Lakeworth—Voted $40,000 bonds for power plant addition. G. Kingsley, city engr. Noted Sept. 6.

Fla., Tampa—Interstate Investment Co., Citizens Bank Bldg., retained Lockwood, Greene & Co., engrs., 24 Federal St., Boston, Mass., to report on feasibility of establishing terminal and warehouse, along water front. Report will also cover complete analysis of operating features of proposed terminal and warehouse, advice as to proper size, type, location and ultimate scheme of development, together with sketch, plans and estimate.

La., Gibsland—See "Waterworks."

La., New Orleans—Ulrich Glass Co., 808 Baronne St., having plans prepared by E. W. Ulrich, Jr., c/o owner, 2 story, 30 x 96 ft. warehouse, 739-741 Dryades St.

La., Shreveport—W. Meriwether, c/o S. Van Os., archt., Merchants Bldg., had plans prepared 1 story, 60 x 80 ft. concrete and brick warehouse, plain foundation, Southern Ave. $50,000.

Tenn., Lexington — Herron Motor Car Co. having plans prepared by E. W. Mann, Madison Ave. Bldg., Memphis, 1 story garage, brick and stone. $40,000.

Tenn., Nashville—Nashville Paper Stock Co., 101 Church St., plans 4 story, brick warehouse, 1st and Church Sts. $40,000.

Ky., Adairsville—Dark Tobacco Growers Cooperative Assn., Hopkinsville, soon takes bids 1 story, 125 x 300 ft., brick warehouse, here. $50,000. Manley & Young, Knoxville, archts. Noted June 14.

Ky., Morganfield—Dark Tobacco Growers Cooperative Assn., Hopkinsville, soon takes bids 1 story, 125 x 250 ft. brick warehouse, here. $40,000. Manley & Young, Knoxville, archts. Noted June 14.

O., Cleveland—Grennen Cake Corp., 1941 East 66th St., had plans prepared by J. F. Steffens, Fidelity Mortgage Bldg., 1 story, 69 x 100 ft. garage, brick and steel, 1937 East 66th St. $40,000.

O., Cleveland—White Motor Co., 842 East 79th St., had plans prepared by Watson Co., 4614 Prospect Ave., 1 story, 90 x 216 ft., brick and timber garage, 787 East 73rd St. $60,000.

O., Columbus—City Ice & Fuel Co., 5th and Naghten Sts., plans to enlarge plant and construct coal yard at West Broad St. along tracks of Cleveland, Cincinnati, Chicago & St. Louis R.R. C. M. Rose, purch. agt.

Ind., Crown Point—City plans electric light and power plant at new sanitarium, $50,000. K. D. Morris, Calumet Bldg., East Chicago, Ill., engr.

Ind., Indianapolis—T. L. Green & Co., 202 Miley Ave., having plans prepared by C. E. Bacon, 605 I.O.O.F. Bldg., 1 story, 75 x 110 ft. addition to plant. $40,000.

Ill., Chicago—H. P. Reger, 128 North La Salle St., plans 1 story, 100 x 200 ft. garage, fireproof, 7939-47 South Chicago Ave. $80,000. Hall, Lawrence, Rippel & Rateliffe, 123 West Madison St., archts.

Wis., Hartford—I. L. Bonniwell plans 2 story, 50 x 80 ft., brick and rein.-con. creamery, plain foundation, to replace one recently destroyed by fire. $40,000. Engineer and architect not selected.

Wis., Kohler—Kohler Co., c/o A. Treick, supt. of construction, plans 1 story, 60 x 140 ft. warehouse and packing room, brick and timber; contract for plain foundation to Immel Constr. Co., 200 North Main St., Fond du Lac. Total $45,000. Private plans.

Wis., Kohler—Kohler Co., c/o A. Treick, supt. of construction, had plans prepared 1 story, 70 x 212 ft., enameling shop, brick and timber, plain foundation. $50,000. Private plans.

Mo., Cameron—Voted $64,500 bonds electric light plant and lines. Burns & McDonnell, 401 Interstate Bldg., Kansas City, engrs. Noted Sept. 13.

Tex., Dallas — W. E. Easterwood, 716 Lowell St., had plans prepared by J. A. Pitzinger, engr. and archt., Southwestern Life Bldg., 1 story, 110 x 150 ft., brick, stone and steel garage, plain foundation, Ervay and Hickey Sts. $40,000.

Tex., Houston — Harris Co. Navigation Dist., Court House, had plans prepared by E. A. Tucker, engr. and archt., Court House, three 1 story, 150 x 480 ft. dock sheds, steel, along Ship Channel. $105,000.

Tex., Marlin—Community Power & Light Co., c/o T. A. Cheeves, having plans prepared plants, at Marlin, Chilton, Rosebud, Mart, Mexia, etc. $500,000. Private plans.

Tex., Refugio—Pratt-Hewitt Syndicate plans carbon black plant. $250,000.

Tex., Waco—Methodist Orphanage plans industrial building and miscellaneous improvements. $40,000. W. F. Barnett, mgr. Engineer and architect not announced.

Okla., Edith—Santa Fe Salt Co. plans plant, 500 tons daily capacity. Cost incl. equipment $100,000.

Calif., Long Beach—C. Bellows, 30 Locust St., having plans prepared by Austin Co., Bartlett Bldg., Los Angeles, 2 story, 125 x 175 ft. brick garage, American Ave. and 20th St.

Calif., Los Angeles—D. E. Foster, 1259 Maryland St., having plans prepared 2 story, 65 x 140 ft. garage, rein.-con. Private plans.

Calif., Sacramento—California Packing Corp., 101 California St., San Francisco, having plans prepared by P. Bush, engr., 101 California St., San Francisco, for packing plant addition, G and H Sts., here. To exceed $150,000.

Calif., San Francisco—Lyons California Glazed Fruit Co., 585 Folsom St., plans factory, will contain more than 100,000 sq.ft. floor space, 17th, Mariposa, Alabama and Florida Sts.

Calif., Vernon—California Metal Enameling Co., East 51st St., had plans prepared by Hamm & Grant, Inc., engrs., Ferguson Bldg., Los Angeles, 1 story, 50 x 120 ft. and 60 x 75 ft. addition to plant. $40,000.

Ont., Brampton—Stacey Wagner Leather Co., Simcoe, plans new plant. $50,000.

Ont., Gowganda—Castle Trethway Mines, Ltd., plans 100 ton mill. $100,000. F. J. Ennis, Porcupine Mines, Schumacher, engr.

Ont., London — S. Jones, 374 Tecumseh Ave., plans plant. $40,000.

Ont., Midland—International Fibre Board Co. plans 60 x 120 ft. concrete and brick addition to factory.

Ont., Ridgetown—E. Fysh plans garage and repair shop. $40,000.

Ont., Timmins — Hollinger Consolidated Gold Mines, Timmins, soon takes bids concrete, brick and steel terminal station building here. $50,000. Kerry & Chace Ltd., Confederation Life Bldg., Toronto, engrs.

Ont., Toronto—Canadian Packing Co., 3 Bathurst St., plans rein.-con., brick and steel plant, plain foundation. $1,000,000. Engineer and architect not selected.

Ont., Toronto—Toronto Hydro-Electric Comn., Yonge and Shuler Sts., plans rein.-con. and steel electric substation, Danforth Ave. $150,000. Private plans.

BIDS DESIRED

Conn., Hartford—Oct. 12, by F. C. Walz, archt., Trumbull St., 1 story, 60 x 240 ft. garage, rein.-con. and brick, plain foundation, State St., for Long Bros., State St. $40,000. Noted Sept. 27.

Conn., Wethersfield — State Prison, Wethersfield, will build 2 story, 50 x 100 ft. factory, brick and steel, plain foundation, by day labor under supervision of Buck & Sheldon, Inc., archts. and engrs., 60 Prospect St., Hartford. $40,000. Noted Aug. 23.

N. Y., Long Island City—Standard Oil Co. of New York, 26 Bway., New York City, will build 2 story, 60 x 100 ft., rein.-con., brick and steel shop, plain foundation, 8th St., here. Work will be done by separate contracts under supervision of H. D. Best & Co., engrs., 949 Bway., New York.

N. Y., Palmyra—Nov. 8, by E. S. Walsh, comr. Canals & Waterways, Albany, completing new power station, Lock 29, here, Contr. 193; adv. E. N.-R. Oct. 11.

La., Baton Rouge—See "Buildings."

O., Cleveland—City Ice and Fuel Co., Cadillac Bldg., receiving bids 1 story, 79 x 158 ft. ice plant, brick, steel and concrete, East 124th St. and Union Ave. $75,000. A. C. Bishop & Co., Guardian Bldg., archts. Noted Sept. 27.

Wis., Algoma—Algoma Wood Products Co. taking bids 2 story, 60 x 120 ft., concrete factory, plain foundation. $50,000. Private plans. Additional factory units to follow.

Wis., Fond du Lac—Oct. 16, by St. Agnes Hospital, c/o M. M. Marcella, 390 East Division St., 2 story, 55 x 128 ft., boiler and engine house, brick, rein.-con. and steel, plain foundation, also 70,000 gal. concrete reservoir and equipment. $100,000. Schmidt, Garden & Marten, 104 South Michigan Ave., Chicago, archts. Noted Sept. 20.

Wis., Madison—Auto Service Co., 213 East Washington Ave., receiving bids 1 story, 50 x 90 ft. garage and repair shop, rein.-con. and brick. $40,000. Private plans. D. Bilsil, prop.

Calif., Los Angeles—J. M. Cooper, archt., Marsh Strong Bldg., taking bids 4 story, rein.-con. warehouse, 11th and Santee Sts., for Electric Corp., 836 South Los Angeles St., $85,000. Noted Aug. 23.

Calif., Los Angeles—Oct. 17, by Bd. Educ., 2 story, 72 x 135 ft. and 3 story, 72 x 120 ft. rein.-con. warehouses, San Pedro St. $160,000. Noted July 12.

CONTRACTS AWARDED

Mass., Quincy (Branch of Boston) — Eustis Pennock & Co., 10 Post Office Sq., Boston, 2 story, 100 x 150 ft. factory, rein.-con., wood pile foundation, Old Colony Ave., here, to Whidden, Beekman Co., 100 Boylston St., Boston, $40,000.

Conn., Hartford — R. G. Miller, Bloomfield, 2 story, 50 x 80 ft. creamery, brick, plain foundation, Barbour St., here, to Garrity & Crowley, 19 Central Row, Archts. est. $60,000. Noted June 21.

Conn., South Windsor — South Winsor Warehouse Co., 3 story, 50 x 150 ft. warehouse, brick and timber, plain foundation, to Industrial Constr. Co., 721 Main St., Hartford. Archts. est. $40,000.

N. Y., Brooklyn—Sanlif Realty Co., c/o E. M. Adelsohn, archt. and engr., 1778 Pitkin Ave., will build brick, steel and stone garage, plain foundation, Van Sinderen Ave., by day labor. $50,000.

N. Y., Long Island City—W. F. Kenny Co., 44 East 23rd St., New York, will build 2 story, 75 x 200 ft. rein.-con., brick and steel garage, plain foundation, Lawson St., here, by day labor. $80,000. Private plans.

W. Va., Clarksburg — American Sheet Glass Co., extending and improving plant, to Simplex Eng. Co., Washington, Pa., $300,000.

N. C., Duke—See "Proposed Work."

N. C., Mooresville—Cascade Mills, 2 story, 60 x 100 ft. and 1 story, 134 x 161 ft. plants, to Grier Lowrance Constr. Co., Statesville, $57,000.

Ky., Adairsville—Dark Tobacco Growers' Co-operative Assn., Hopkinsville, 1 story, 125 x 285 ft., brick warehouse, here, to Lewis Lumber Co., Franklin, about $50,000. Noted Oct. 11.

Industrial Works (Continued)

Ky., Owensboro—I. H. and H. N. Robertson, 1 story, 200 x 260 ft. warehouse, 9th Ave., to G. C. Little & Co., Owensboro. Est. cost $40,000. Noted Sept. 20.

O., Alliance—W. W. Campbell Co., 1 and 2 story, brick, steel and concrete factory, boiler house and office building, to Boldt Constr. Co., 1969 East 70th St., Cleveland. Archts. est. $75,000.

O., Cincinnati—Rauh & Mack Shirt Co., 209 East 6th St., 8 story, 50 x 140 ft., rein.-con. factory, to Ferro Concrete Constr. Co., 3rd and Elm Sts., $178,000. Noted May 31.

O., Cleveland—Fisher Bros. Co., 2323 Lakeside Ave., 6 story and basement, 88 x 260 ft. bakery and warehouse, rein.-con. and brick, Lakeside Ave., to S. W. Emerson Co., Union Bldg. Archts. est. $350,000. Noted Oct. 4.

O., Cleveland—Miller-Becker Co., 6411 Central Ave., 2 story, 50 x 135 ft. garage, brick, steel and concrete, Central Ave. and East 65th St., to J. Miller, 10819 Drexel Ave. Archts. est. $60,000. Noted Oct. 4.

O., Cleveland—H. F. Neighbors, Bulkley Bldg., 1 story, 100 x 200 ft., brick and timber garage, 1826 East 24th St., to W. I. Thompson & Son Co., 5103 Euclid Ave. Archts. est. $50,000.

O., Cleveland—C. W. Schaefer, Society for Savings Bldg., 1 story, 62 x 103 ft., brick and timber garage, 1410 West 55th Pl., to J. W. Chrisford, 1452 Highland Ave., Lakewood. Archts. est. $40,000.

O., Rocky River — River Garage Co., 1183 Cook Ave., Lakewood, 1 story, 15 x 225 ft., brick and concrete garage, Blount St., here, to L. H. Thulen, Rocky River. Archts. est. $40,000.

Mich., Detroit—Great Western Smelting & Refining Co., Russell St., 1 story, 193 x 208 ft. rein.-con., brick and steel foundry and warehouse, plain foundation, Russell St., to P. H. Piper, 208 Sun Bldg. Noted Sept. 20.

Mich., Iron Mountain—Ford Motor Co., 1 story, 115 x 145 ft. and 51 x 261 ft. rein.-con., brick and steel plant, plain foundation, to Worden-Allen Co., Iron Mountain.

Ill., Chicago—L. Fish Furniture Co., 1906 Wabash Ave., 6 story, 100 x 125 ft., warehouse, fireproof, 2225-35 West Pershing Rd., to R. F. Wilson & Co., 1851 Elston Ave. Archts. est. $350,000.

Ill., Chicago — Hudson Motor Co. of Illinois, 2220 South Michigan Ave., 1 story, 100 x 125 ft. garage, fireproof, Ogden St., near Harding St., to W. G. McNulty & Bro., 58 East Washington St. Archts. est. $50,000.

Wis., Biron (Wisconsin Rapids, P. O.)—Consolidated Water Power Paper Co., Wisconsin Rapids, will build 1 story, 50 x 70 ft., brick, rein.-con. and steel, boiler house, plain foundation, by day labor. $40,000. Private plans.

Wis., Milwaukee — P. J. Fischer, 241 Rusk Ave., 1 and 2 story, 60 x 100 ft., brick and timber plant, plain foundation, Clybourn St., to Henning & Coffeen, 1634 21st St. Archts. est. $40,000. Noted July 12.

Wis., Milwaukee — Gridley Dairy Co., 1329 North Ave., 1 story, 42 x 105 ft., dairy addition, brick and concrete, plain foundation, to Dahlman Constr. Co., 456 Bway. Archts. est. $35,000-$40,000.

Wis., Milwaukee—R. Klapinski, 614 Mitchell St., 1 story, 47 x 120 ft., brick and concrete garage, plain foundation, 8th Ave., to Czaplewski Bros., 1440 Midland Ave. Archts. est. $40,000.

Wis., Milwaukee — Milwaukee Coke & Gas Co., 187 Greenfield Ave., 1 and 4 story, 60 x 70 ft. and 60 x 80 ft. benzol plant, brick, concrete and steel, plain foundation, by day labor; steel, to Wisconsin Bridge & Iron Co., North Milwaukee. Engrs. est. $50,000. Noted Sept. 27.

Wis., Milwaukee—Thurner Heat Treating Co., 126 Ferry St., 1 story, 48 x 100 ft., brick and timber plant, plain foundation, to Kuhl & Keating, 428 Grand Ave. Archts. est. $40,000.

Wis., Neillsville—O. Lerverenz will build 50 x 60 ft. garage, repair shop and filling station, rein.-con. and brick, plain foundation, by day labor. $40,000. Private plans.

Wis., Sun Prairie—Sun Prairie Porcelain Co., 2 story, 40 x 100 ft. factory addition, tile and concrete, to A. Lessner, Sun Prairie. Archts. est. $40,000.

Calif., Los Angeles — A. Costello, Los Angeles, 4 story, 72 x 200 ft. rein.-con. garage, 1348 South Figuroa St., to W. D. Lee, 400 Sun Bldg., $129,000.

Calif., Los Angeles—L. R. Lurie, 318 Montgomery St., San Francisco, 2 story and basement, auto stage terminal, rein.-con., 6th and Los Angeles Sts., here, to Vukicevich & Bagge, 815 Bryant St., San Francisco, $200,000. Noted Oct. 4.

Calif., Los Angeles—Roth Cigar Co., 445 South Los Angeles St., 2 story, brick factory, 16th St., to P. J. Bolin, c/o Builders' Exch., to exceed $40,000. Noted Oct. 4.

Calif., Los Angeles — Voelker Co., 532 South Alameda St., 4 story and basement, factory and warehouse, rein.-con., East 7th St., general contract to Clinton Constr. Co., Stock Exch. Bldg., $175,000. Noted Sept. 27.

Calif., Los Angeles — O. J. Weber, 759 South Los Angeles St., 3 story and basement, 50 x 150 ft., rein.-con. warehouse, East 8th St., to May & Grimwood, Haas Bldg.

Calif., Oakland—Chevrolet Motor Co. of California, 69th Ave. and Foothill Blvd., 1 story addition to factory, rein.-con., Foothill Blvd., to Dinwiddie Constr. Co., Crocker Bldg., San Francisco, to exceed $150,000. Noted Sept. 13.

Calif., Oakland—Mutual Creamery Co., 3724 East 14th St., 1 story plant, brick, 5th Ave. and East 11th St., to M. E. Hooper, 1117 Webster St., $43,000. Noted Sept. 13.

Calif., San Francisco — San Francisco Chronicle, Chronicle Bldg., 3 story and basement publishing plant, rein.-con., Mission and 5th Sts., to K. E. Parker Co., Clunie Bldg., $582,750 guaranteed fee, cost plus basis. Noted Nov. 30.

Calif., San Francisco — Western Pacific R.R. Co., Mills Bldg., 1 story, concrete warehouse, 15th and Vermont Sts., to Mahoney Bros., Flood Bldg., $84,000. Noted Oct. 4.

Calif., San Pedro — L. J. Harris, 1939 Gaffey St., 1 story, 50 x 150 ft. garage, brick and concrete, 13th St., to Triangle Constr. Co., 31 Sepulveda St., cost plus basis.

Ont., Welland—W. G. Somerville & Son, 36 Main St. N., 1 story and basement, 52 x 100 ft. garage and repair shop, to W. Mitchell, Welland, $50,000.

Calif., Los Angeles—Los Angeles Motor Bus Co., 806 Los Angeles Ry. Bldg., 1 and 2 story, garage and office, North Virgil St., to Slater Co., 2314 Santa Fe Ave., $115,000. Noted Sept. 13.

Buildings

PROPOSED WORK

Mass., Fall River—High School—City had plans prepared by N. C. Chase, 47 Borden Bldg., and soon takes bids 3 story and basement, 80 x 120 ft., rein.-con., brick and stone, plain foundation, North Park St. $700,000. Noted Aug. 10, 1922.

R. I., Providence—Hospital—Providence Lying In Hospital, 96 Parkway St., having plans prepared by Stevens & Lee, 9 Park St., Boston, Mass., 4 story and basement, rein.-con., brick and stone, wood pile foundation, Parkway St. $800,000.

Conn., Hartford—Apartment—L. Freedman, Vine St., having plans prepared by H. B. Summer, Gold St., 3 story, brick, plain foundation, Vine St. $220,000.

Conn., Hartford—Bank—Dime Savings Bank, 66 Pearl St., plans 3 story, brick, limestone and steel, plain foundation. $200,000. W. F. Brooks, Lewis and Gold Sts., archt.

Conn., Meriden—High School—Bd. Educ. having plans prepared by W. T. Arnold, 343 West Main St., 3 story, brick and steel, plain foundation. $350,000. Noted Sept. 27.

Conn., Middletown—Nurses Home—Connecticut State Hospital having plans prepared by W. P. Crabtree, Bank Bldg., New Britain, 2 story and basement, brick and steel, plain foundation, $220,000. R. L. Leak, supt. Noted July 26.

N. Y., New York—Office and Hall—Steinway & Sons, 109 West 14th St., having plans prepared by Warren & Wetmore, 16 East 47th St., 15 story, brick, steel and stone, plain foundation, West 57th St. $2,000,000.

N. Y., New York — Church — Calvary Methodist Episcopal Church, c/o J. Gregory, archt. and engr., 49 West 45th St., soon takes bids brick, steel and stone, plain foundation, University Ave. $250,000.

N. Y., New York—School—Bd. Educ., 500 Park Ave., soon takes bids P.S. 116, brick, steel and stone, plain foundation, Wren Pl. $1,000,000. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, archt. and engr.

N. Y., Troy—College—Rensselaer Polytechnic Institute having plans prepared by T. R. Lawton, archt. and engr., Troy, 4 story, 95 x 120 ft., brick and steel, plain foundation, on campus. $250,000.

N. J., Newark—School—Bd. Educ., City Hall, having plans prepared by Guilbert & Bettelle, archts. and engrs., 2 Lombardy St., brick, steel and stone, plain foundation, Ridge St. $175,000.

Pa., Johnstown—Temple—Masonic Temple Assn., Alma Hall, had plans prepared by R. D. Schmid & Co., Randolph St., Chicago, 4 story and basement, 100 x 200 ft., concrete, brick, steel and stone, Valley Pike and Hay Ave. $250,000.

Pa., Wilkes-Barre — Clubhouse — Wilkes-Barre Council 302, Knights of Columbus, plans 83 x 215 ft. clubhouse, South Main St. $200,000. Engineer and architect not selected.

N. C., Charlotte—Church, etc.—First Associate Reform Presbyterian Church plans church, community house and parsonage. $200,000. Engineer and architect not selected.

S. C., Spartanburg—Office and Theater—Lockwood-Green & Co., archts., 24 Federal St., Boston, Mass., preparing plans for new Montgomery Bldg., 10 story, here.

La., Alexandria — Schools — Nov. 15, to vote on $1,250,000 bonds for schools in Rapides Parish. Favrot & Livaudais, Hibernia Bank Bldg., New Orleans, preparing plans for high school, grade school and colored school.

La., New Orleans—Hospital—S. Stone, Jr., archt., 714 Union St., preparing plans for 4 story main building and two 3 story wings, rein.-con., Gentilly Rd. $400,000. Bids in January. Funds donated by J. Dibert, of Dibert, Bancroft & Ross, Tulane and Hagan Aves.

La., New Orleans—Office—Union Indemnity Co., 830-836 Union St., having plans prepared by M. H. Goldstein, and Favrot & Livaudais, Hibernia Bank Bldg., 12 story and basement, Baronne and Gravier Sts. $1,250,000.

La., New Orleans—School—Orleans Parish School Bd. having plans prepared by E. A. Christy, archt., c/o School Bd., 2 story, 189 x 254 ft., Carrolton and Apple Aves. $275,000.

Ky., Ashland—Hotel—O. P. Powers plans 4 story, 85 x 100 ft. $150,000. Architect not selected.

Ky., Ashland — Hotel — W. A. Wilson, Williamson, plans modern hotel. $400,000-$500,000. Engineer and architect not announced.

Ky., Ashland—Office—Williamson Wholesale Hardware Co. plans 5 story, 100 x 142 ft., brick and concrete, 16th and Greenup Sts. $150,000. Engineer and architect not announced.

Ky., Ashland — Station — Chesapeake & Ohio R.R. Co., 823 East Main St., Richmond, Va., plans new station on 10th St., here. $400,000. F. Q. Cabell, c/o owner, engr.

Ky., Louisville—Bank—Federal Reserve Bank, 5th and Market Sts., having plans prepared by D. X. Murphy & Bros., archts., Louisville Trust Bldg., 2 story, cut stone addition. $200,000.

Ky., Louisville—Church—St. Francis of Rome Congregation, Payne and Coverwood Aves., plans new stone and concrete church. $150,000. Architect not selected.

Ky., Louisville — Office — W. Heyburn, c/o Belknap Hardware & Mfg. Co., 2nd and Washington Sts., having plans prepared by Joseph & Joseph, Francis Bldg., 18 story, 132 x 200 ft., 4th St. and Bway. $2,000,000.

O., Athens—School—Bd. Trustees Ohio University, having sketches made by R. Harsh, Ohio-Hartman Bldg., Columbus, 4 story manual training building, and 3 story and basement engineering building, fireproof, here. $150,000 each.

O., Cincinnati—Library—Nov. 2 to vote on $2,500,000 bonds for library, Vine St. Address Library Bd., 629 Vine St. Engineer and architect not selected.

O., Cleveland—Apartment—M. Narosny, 1083 Lakeview Rd., had plans prepared by M. Weis, 617 Union Bldg., 3 story and basement, 37 x 148 ft., brick and timber, East 97th St. near Lamont Ave. $150,000.

O., Cleveland — Clubhouse — Cleveland Aviation & Athletic Club, Winton Hotel, having plans prepared by Osborn Eng. Co., 2848 Prospect Ave., 1 story, 100 x 187 ft., brick, steel and concrete top addition to hotel (to be used as clubhouse), Prospect Ave. $150,000.

O., Columbus — Hospital — White Cross Hospital Assn., North Park St., having plans prepared 4 story and basement addition, brick and concrete. $300,000. T. M. Hare, Westerville, fiscal agent. Engineer and architect not announced.

O., Findlay—Home—Comrs. Hancock Co., having revised plans prepared by P. B. Husken, Domestic Bldg., Lima, 3 story and basement, 40 x 80 ft., brick, stone, steel and concrete, North Main St. $150,000.

Buildings (Continued)

O., Kenton—Theatre and Office—Kenton Amusement Co. plans 4 story, steel and concrete, east of Hotel Weaver. $150,000.

O., Youngstown—Theatre—B. F. Keith, 1564 Bway., New York City, had tentative plans prepared by T. W. Lamb, archt., 644 8th Ave., New York City, 105 x 225 ft. theatre, 50 ft. high, Public Sq., here. $1,450,000. J. R. Elliott, 371 Alameda Ave., mgr. Engineer not announced.

Ind., Evansville — Dormitories — Evansville College plans 2 dormitories. $300,000. Engineer and architect not selected.

Mich., Detroit—Apartment—F. Wardell, Dewey and Hamilton Aves., plans 6 story, 150 x 225 ft. rein.-con., brick, steel and stone, plain foundation, Woodward and Kirby Aves. $1,500,000. Architects name withheld.

Ill., Chicago—Apartment—Owner c/o L. F. Cox, 111 North Dearborn St., plans 3 story and basement, 150 x 200 ft., rein.-con., brick and steel, Kedvale and Belle Plains Aves. $300,000. E. Steinborn, 111 North Dearborn St., archt.

Ill., Glen Ellyn—Hotel—Local Syndicate, c/o Harris & Jilson, archts., 190 North State St., Chicago, having preliminary plans prepared 4 story and basement 150 x 150 ft., brick, stone and rein.-con., here, $300,000.

Ill., Highland Park—Home—Aged and Disabled Railroad Mens Home, Highland Park, plans 3 story addition, fireproof. $150,000. R. W. Flinn, 334 Park Ave., archt.

Ill., Moline—Lodge and Office—Moline Lodge of Elks, c/o L. N. Ritter, 1714 6th Ave., soon takes bids 3 story and basement, 90 x 150 ft., rein.-con., brick and stone. $175,000. Whitsett & Schulzke, Peoples Bank Bldg., archts.

Ill., Peoria—Armory—Dept. Pub. Wks. and Buildings, Springfield, having preliminary plans prepared by E. A. Martin, state archt., 304 South Wabash Ave., Chicago, 2 story and basement, 56 x 170 ft. rein.-con., stone and brick, here, for Illinois National Guard. $200,000.

Ill., Urbana—College—University of Illinois, having preliminary plans prepared by J. M. White, superv. archt., 256 Administration Bldg., 2 story and basement, brick, stone and rein.-con. commercial and business administration building, also agricultural and equipment building on campus, $850,000. C. E. Platt, 101 Park Ave., New York City, associated archt. Noted Aug. 17, 1922.

Wis., Madison—Convalescent—Wisconsin Memorial Hospital Comn., c/o W. F. Lorenz, secy., Capitol, having plans prepared by A. Peabody, Capitol Bldg., 1 story, 50 x 150 ft., rein.-con. and brick, plain foundation, Farwells Point. $150,000.

Wis., Milwaukee—Church—St. Florian Congregation, 467 39th Ave., having plans prepared by Brust & Philipp, archts., 405 Bway., 2 story, 62 x 142 ft., brick and concrete, plain foundation, 39th Ave.; contract for basement, to E. Steigerwald & Sons, 2303 Galena St. Total $150,000.

Wis., West Allis—Schools—School Bd. c/o F. E. Haker, pres., plans additions to Roosevelt, High and McKinley Schools, brick and tile, plain foundation. $200,000. Engineer and architect not selected.

Minn., St. Paul—Hotel—Ryan Hotel Co., 6th and Robert Sts., plans 12 or 13 story, rein.-con., brick and tile, 6th and Jackson Sts. $1,500,000. A. D. Darge, mgr. Engineer and architect not announced.

Wyo., Casper—Schools—School Dist. 2, comprising Casper and Salt Creek Oil Fields, voted $300,000 bonds for 2 new schools and additions to 3 schools. Garbutt, Weidner & Sweeney, Cons. Roy. Bldg., archts.

Ark., Fayetteville—Hotel, etc.—Southern Methodist Church, c/o Chautauqua Assn., having preliminary plans prepared various buildings, incl. hotel, mission, Sunday school, ladies' auditorium, administration, etc., brick, concrete and stone. $500,000. Private plans.

Tex., Houston—Library—City takes bids this month, library, Spanish renaissance. $200,000. Watkins & Glover, Scanlan Bldg., engrs. and archts. Noted July 26.

Tex., San Antonio — Auditorium — City having plans prepared by R. H. Cameron, 1116 City Bank Bldg., 2 story, 110 x 175 ft., Romana St. $500,000 available. Election first week in December to vote on an additional $200,000 bonds.

Okla., Pawhuska — Lodge — Wah Sha Mong Lodge No. 110, A. F. & A. M., having plans prepared by J. O. Bradley & Co., Pawhuska, 3 story and basement, 80 x 148 ft., brick and stone. $150,000.

Calif., Berkeley—Bank of Italy, Powell and Market Sts., San Francisco, having plans prepared by H. A. Minton, 550 Montgomery St., San Francisco, 2 story, rein.-con., Telegraph Ave., here. $150,000.

Calif., Los Angeles—Apartment-Store—C. H. Crawford c/o L. L. Moser, designer, 8335 Sunset Blvd., having plans prepared 2 story and basement, brick, Sunset Blvd. $150,000.

Calif., Los Angeles—Club—Jonathan Club, Pacific Electric Bldg., plans 6 story and basement, 6th and Figueroa Sts. To exceed $450,000.

Calif., Norwalk—High School—Plans election to vote on $200,000 bonds for high school buildings, for Excelsior Union High School Dist.

Calif., Oakland—Bank and Office—Bank of Italy, Market and Powell Sts., San Francisco, had plans prepared by H. A. Minton, 550 Montgomery St., San Francisco, 2 story, rein.-con., College St. and Shafter Ave., here. $150,000.

Calif., Oakland—Store, Loft and Hall—A. S. Bugbee, archt., 26 Montgomery St., San Francisco, preparing plans 3 story, rein.-con., here. $175,000. Owners name withheld.

Calif., Orange—Theatre—G. G. Richards having plans prepared by A. Hesse, Hollingsworth Bldg., Los Angeles, brick and rein.-con. $150,000.

Calif., Richmond—Hospital—City plans to vote on $150,000 bonds for hospital and $50,000 for swimming pool. A. C. Faris, city clk.

Calif., San Francisco—Apartment—L. B. Ham, 110 Sutter St., had plans prepared by A. J. Horstman, Sacramento and Franklin Sts., 6 story and basement, rein.-con., Stockton St. near California St. $150,000.

Calif., San Francisco—Apartment—L. B. Ham, 110 Sutter St., having plans prepared 6 story and basement, rein.-con., Sacramento and Octavia Sts. $150,000. Private plans.

Calif., San Francisco—Apartment—F. La Torres, 185 Stevenson St., having plans prepared by E. H. Denke, 1317 Hyde St., 5 story and basement, rein.-con., Washington St. near Jones St. $150,000.

Calif., San Francisco — Hospital — St. Marys Hospital, Hayes and Stanyan Sts., having plans prepared by Shea & Shea, Chronicle Bldg., two 5 story and basement, rein.-con. and steel wing additions, to exceed $150,000.

Calif., San Francisco—Store and Hotel—J. Welsh, 597 20th Ave., had plans prepared by Baumann & Jose, 251 Kearny St., 6 story and basement, rein.-con., Sutter St. near Jones St. $175,000.

Calif., Ventura—Bank—Bank of Italy, Powell and Market Sts., San Francisco, having plans prepared by H. A. Minton, 550 Montgomery St., San Francisco, 1 story, rein.-con., here. $150,000.

Que., Montreal — Hotel — Queens Hotel Ltd., Windsor St., takes bids about December, 10 story, 50 x 60 ft. red sand stone addition. $500,000. J. A. Raymond, mgr. Architect not selected.

Que., Outremont—Mother House—Sisters of Holy Name of Jesus, Notre Dame St. E., Montreal, plan 5 story, rein.-con., brick and stone, Maplewood Ave., here. $600,000. S. Duchastel, Outremont, engr.

Ont., Oshawa—High School—Bd. Educ., Dominion Bank Chambers, soon takes bids 2 story and basement, 20 room, rein.-con., brick and steel, plain foundation, Simcoe St. $200,000. Hutton & Souter, Bank of Hamilton Bldg., Hamilton, archts.

Ont., Toronto—Church—Calvary Angelican Church, c/o E. J. McKittrick, pastor, 267 Blackthorn Ave., plans 1 story and basement, rein.-con. and brick, plain foundation, Silverthorn Ave. $150,000. Engineer and architect not selected.

RAILWAY—CALIFORNIA

Following are lowest three bids opened by A. L. Cowell, Secy., Merced Irrigation Dist., Merced, for relocation of Yosemite Valley Ry., (A) Twohy Bros. and P. Welsh Co., Sharon Bldg., San Francisco; (B) Utah Constr. Co., McIntyre Bldg., Salt Lake City; (C) W. A. Bechtel. The unit bids were as follows:

	A	B	C
300 acres clearing and grubbing	$35 00	$50 00	$60 00
654,836 cu.yd. solid rock excavation	1 07	1 15	
175,288 cu.yd. loose rock excavation	65	70	lump
163,011 cu.yd. common excavation	33	38	sum
22,000 cu.yd. common borrow	33	34	bid
57,000 cu.yd. loose rock borrow	65	60	1,500,989 00
Solid rock borrow	1 07	1 10	
Overhaul—			
1,000,000 cu.yd. less than 1,000 ft., per 100 ft	0125	025	03
Overhaul more than 2,000 ft., per 1,000 ft	03	15	15
Retaining walls—			
Riprap	3 00	4 00	3 00
1,300 cu.yd. laid dry	5 00	6 00	5 00
644 cu.yd. laid in cement mortar	8 00	12 00	13 50
Corrugated iron culverts—			
4,444 lin.ft. 18 in	1 50	1 25	2 00
1,397 lin.ft. 24 in	2 00	1 70	2 50
653 lin.ft. 30 in	2 50	2 10	3 00
1,909 lin.ft. 36 in	3 00	2 50	4 00
Culvert ends—			
Concrete	22 00	20 00	30 00
Rubble masonry	12 00	20 00	25 00
3,495 lin.ft. excavation minimum unlined tang. section	65 00	93 00	125 00
Tunnels—Overhaul—			
Less than 1,000 ft., per 100 ft	0125	025	05
More than 2,000 ft., per 1,000 ft	03	15	15
2,725 cu.yd. concrete lining	32 50	22 00	33 50
600 cu.yd. concrete portals	25 00	16 00	25 00
Trestles—			
330,046 ft. B.M. fitting and erecting timbers	20 00	33 00	48 00
1,247 cu.yd. concrete piers and footings	22 00	16 00	30 00
Tracklaying and ballasting—			
17.63 mi. tracklaying, including sidings	3,000 00	1,400 00	2,250 00
16.87 mi. ballasting	1,500 00	2,600 00	2,250 00
Setting 8 switches	50 00	100 00	110 00
Extended totals	$1,407,392	$1,543,651	$2,260,911

*Work covered by above bids did not include furnishing culvert pipe, trestle timber, ties and rails, switches and track fastenings (which will be furnished by the district) nor any work on five bridges and abutments. Engineers estimate of cost of factors not covered in above bids is $1,544,969, of which $1,060,639 is for bridges.

BIDS DESIRED

Conn., Meriden — Telephone — Southern New England Telephone Co. taking bids and opens same about Oct. 15, 3 story, 60 x 80 ft., brick and steel, plain foundation, Butler St. $150,000. G. H. Gray, 867 Prospect St., New Haven, archt. Noted July 26.

Conn., Hartford—Church—Oct. 16, by F. S. Thompson, chn. Central Baptist Church, 219 Ridgefield St., church Main and Elm Sts., $500,000. Noted July 12.

Conn., Waterbury—Church—Oct. 16, by M. O. Owen, pastor, Bunker Hill Congregational Church, 22 Marion St., brick and stone, plain foundation, Bunker Hill Ave. $200,000. F. A. Webster, 51 West Main St., archt. Noted May 17.

N. Y., Coney Island (Brooklyn, P. O.)—Hotel—R. H. Segal, archt. and engr., 110 West 40th St., New York, taking bids and opens same about Oct. 8, 13 story, rein.-con. and steel, Surf Ave. and 24th St., here, for Sea Gate Hotel & Bath Co., c/o architect. $1,000,000. Noted Aug. 9.

N. Y., New York—High School—Oct. 30, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, for James Monroe High School easterly side of Boynton Ave. from East 172nd to East 173rd Sts., here. Former contract rescinded. Noted Oct. 4.

Buildings (Continued)

N. J., Elizabeth—High School—Oct. 24, by Bd. Educ., Battin High School Auditorium, South Broad St., new junior high school, Cherry St. and Westfield Ave. Kilham, Hopkins & Greeley, 9 Park St., Boston, Mass., archts. Noted Nov. 23.

Pa., Norristown — School — Oct. 30 by School Dist., constructing High School Annex, 2 story, 65 x 270 ft. with three wings, 64 x 82 ft., 70 x 68 ft. and 42 x 70 ft., brick. $400,000. O. R. Parry, 1524 Sansom St., Phila., archt.

N. C., Charlotte—Theatre and Office—Oct. 20, by W. L. Stoddart, archt. and engr., 9 East 40th St., New York City, 3 story, for J. H. Cutter, Commercial Bank Bldg., Charlotte. Noted Sept. 13.

La., Baton Rouge — Passenger Station, etc.—Illinois Central R.R., 135 East 11th Pl., Chicago, Ill., taking bids 2 story passenger station 388 ft. long, tapestry brick and stone, also 1 and 2 story freight depot, 524 ft. long with 143 ft. platform, brick, near river front between Asia and France Sts., here. F. L. Thompson, ch. eng.

La., Shreveport—Theatre—Oct. 27, by E. Weil, archt., Whitney Central Bldg., New Orleans, 111 x 150 ft. rein.-con., brick, steel and stone, here, for Saenger Amusement Co., Tulane and Liberty Sts., New Orleans, and Erlich Bros., Shreveport. $750,000.

Tenn., Memphis—Store—Oct. 15, by E. Weil, archt., Whitney Annex Bldg., New Orleans, La., and Hanker & Cairns, associated archts., Scimitar Bldg., Memphis, 9 story and basement, 150 x 150 ft., rein.-con., brick and terra cotta, Monroe Ave. and Main St., for Lownestein Dept. Store, controlled by Maison Blanche Co. interests, New Orleans, La. Noted Aug. 23.

O., Lakewood (Cleveland P. O.)—Apartment—M. Arnoff, East 105th St. and East Blvd., Cleveland, taking bids and opens same about Oct. 21, 3 story and basement, 56 x 132 ft. and 56 x 72 ft., brick, 12053 Lake Ave., here. $160,000. G. Rudolph, Newman-Stern Bldg., Cleveland, archt.

O., Painesville—Commercial and Club—Pythian Building Co., c/o R. E. Jackson, taking bids 6 story, brick, steel and concrete. $150,000. C. W. Bates, 77 12th St., archt.

O., Sandusky—Hotel—Millot & Parker, archts., Bliss Bldg., receiving bids 6 story and basement, 66 x 66 ft. and 23 x 37 ft., brick, steel and concrete addition, for Rieger Hotel Co., Jackson St. $200,000.

O., Uhrichsville — Hotel — Uhrichsville Hotel Co. taking bids and opens same about Oct. 22, 5 story, 100 room, brick, steel and concrete. $150,000. P. C. Cahill, 4502 Prospect Ave., Cleveland, archt.

O., Wapakoneta—High School—Oct. 19, by C. C. Nordin, clk. Bd. Educ., 3 story and basement, 125 x 151 ft., rein.con. and brick. $150,000. F. L. Packard, 16 East Broad St., Columbus, archt.

Mich., Detroit—Store and Apartment—Oct. 15, by W. Hamacher, engr., 3527 St. Clair Ave., 3 story and basement, 99 x 225 ft. rein.-con., brick and steel, plain foundation, Linwood Ave., for Pitts & Bremer, 2018 Gladstone Ave. $160,000.

Mich., Flint—High School—Oct. 15, by Malcomson & Higginbotham, archts., 405 Moffat Bldg., Detroit, 3 story and basement, 187 x 363 ft. rein.-con., brick and steel, Pasadena Ave., for Bd. Educ. $900,000.

Ill., Chicago—Apartment—J. C. Krietenstein, 35 North Dearborn St., receiving bids 3 story and basement, 110 x 125 ft., fireproof, 54th and Harper Sts. $150,000. Z. E. Smith, 305 East 55th St., archt.

Ill., Chicago—Apartment—D. G. Wallace, archt., 22 West Monroe St., receiving bids 3 story, fireproof, Washington St. and Homan Ave., for L. Susman c/o architect. $150,000.

Ill., Niles (R. F. D. Norwood Park Chicago, P. O.)—Dormitory—Oct. 23 by E. Brielmaier & Sons Co., archts., 432 Bway., Milnaukee, Wis., 3 story and basement, brick and concrete, for St. Hedwigs Industrial School, here. $300,000. Noted May 10.

Wis., Milwaukee—Store and Apartment—T. R. Bishop Co., archts., 35 South Dearborn St., Chicago, receiving bids 3 story and basement, 60 x 162 ft., brick and concrete, Farwell Ave., here. $200,000.

Ia., Davenport—Schools—Oct. 17, at office J. D. McCollister, secy. Bd. Educ., 1144 Main St., for 2 grade schools. Clausen & Kruse, 910 Kahl Bldg., archts.

Minn., Waseca—High School—Oct. 30 (extended date), by Bd. Educ., 3 story and basement, rein.-con., brick, tile and stone. $350,000. W. B. Ittner, 911 Locust St., St. Louis, Mo., archt. and engr. Noted Sept. 20.

Kan., Hutchinson—Schools—Nov. 1, by Bd. Educ., 2 story and basement, 122 x 156 ft. grade school and 2 story, 60 x 110 ft. addition to Sherman High School. $150,000 Smith & English, Hutchinson, archts. for former. Mann & Gerow, Hutchinson, archts. for latter.

Okla., Oklahoma City—High Schools—Oct. 15, by Layton, Smith & Forsyth, archts., 701 Southwest Natl. Bank Bldg., Oklahoma City, constructing Harding Jr. High School, 3 story and part basement, 217 x 233 ft., 33rd and Shartel Sts., $400,000; Roosevelt Jr. High School, 3 story, 9th and Klein Sts., $400,000; 3 story and basement, 100 x 210 ft. high school, $300,000; all rein.-con. and stone. Noted May 10.

Tex., San Antonio—Apartment—H. T. Phelps, archt., 519 Hicks Bldg., taking bids 7 story 90 x 160 ft., rein.-con. and brick, plain foundation, Ave E and 3rd St., for S. L. Jeffers, 1 Bushnell Pl. $200,000. W. E. Simpson Co., N.B.C. Bldg., engrs. Noted Sept. 13.

Calif., Culver City—Store, Office and Hotel—Curlett & Beelman, archts., Union Bank Bldg., Los Angeles, receiving bids 6 story and basement, rein.-con. and brick, Washington and Main Sts., for H. H. Culver, $150,000 or more.

Calif., Los Angeles — Apartment — J. Frauenfelder, archt., Story Bldg., taking bids 5 story, 85 x 160 ft. concrete and brick, 3rd and Lucas Sts., for Los Angeles Nurses Club, 1103 West 8th St.

Calif., Los Angeles—Hotel—L. L. Jones, archt., Grosse Bldg., receiving bids 12 story and basement, fireproof, Bixel and Ingraham Sts., for H. Foote. To exceed $500,000. Noted Sept. 27.

Calif., Los Angeles—School—Oct. 17, by Bd. Educ., 3 story, brick. To exceed $250,000. Morgan, Walls & Morgan, Van Nuys Bldg., archts. Noted July 12.

Calif., Los Angeles—Store—C. F. Plummer, archt., Story Bldg., reeciving bids 3 story and basement, brick and steel, 7th St. and Union Ave., for Youngs Market, Inc., 638 South Bway. $350,000. Noted Sept. 13.

Calif., Marysville — Hotel — E. Glass, archt., Underwood Bldg., San Francisco, taking bids 5 story and basement, 119 x 163 ft. concrete, 5th and E Sts., for Marysville Hotel Co., c/o archt. $300,000. Noted June 21.

Calif., San Francisco—Apartment—L. B. Ham, 110 Sutter St., receiving bids 10 story and basement, brick and steel, Sutter and Leavenworth Sts. $250,000. Private plans.

Calif., San Francisco—High School—Oct. 17, by Bd. Pub. Wks., furnishing, fabricating and erecting structural steel and cast iron for addition to high school, Fell St., for City and San Francisco Co. $90,000. Total cost to exceed $150,000. J. Reid, Jr., 1st Natl. Bank Bldg., city archt.

B. C., Point Grey—Library—Oct. 22, by Minister Pub. Wks., here, Victoria, 3 story, rein.-con., stone, brick and tile, here, for University of British Columbia, 10th and Willow Sts., Vancouver. $350,000. Sharp & Thompson, 708 London Bldg., Vancouver, archts. Noted Aug. 9.

BIDS RECEIVED

R. I., Providence — Armory — Comn. of Armory of Mounted Commands, Oct. 1, 1, 2 and 4 story, brick, plain foundation, North Main St., from E. Turgeon, 86 Weybosett St., $424,301. Archts, est. $380,000. Noted Sept. 27.

Tenn., Nashville—Hospital, etc.—J. H. Kirkland, chancellor Vanderbilt University, 5 story rein.-con. and stone hospital and power plant, on campus, from Hegeman-Harris Co., 185 Madison Ave., New York City, $2,000,000.

Kan., Iola—High School—Bd. Educ., general contract 2 story and basement, 95 x 141 ft., rein.-con., brick and stone, plain foundation, from Peterson Constr. Co., Salina, $116,300.

CONTRACTS AWARDED

N. Y., Flushing — Dormitory, etc. — Bd. Educ., 500 Park Ave., New York, masters house dormitory, barn, infirmary and coal bin, for Parental School, on westerly road side between Flushing and Jamaica, about 1,700 ft. south of North Hempstead Turnpike, here, to T. Dwyer, Bway. and 216th St., New York, $680,000. Noted Sept. 27.

N. Y., New York — Apartment — Ards Building Corp., c/o G. A. Bagge & Sons, archts. and engrs., 299 Madison Ave., will build brick, steel and stone, plain foundation, 55 West 11th St., by day labor. $1,500,000.

N. Y., New York—Apartment—Krafmer Building Corp., c/o Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., will build 6 story, brick, steel and stone, plain foundation, Ft. Washington Ave., by day labor. $300,000.

N. Y., New York—Apartment—Lansom Constr. Corp. c/o Gronenberg & Leuchtag archts. and engrs., 450 4th Ave., will build 6 story, brick, steel and stone, plain foundation, Pinehurst Ave., by day labor. $400,000.

N. Y., New York—Apartment—O. F. F. Constr. Co., c/o J. M. Felson, archt. and engr., 1133 Bway., will build 6 story, brick, steel and stone, plain foundation, Creston Ave., by day labor. $300,000.

N. Y., New York — Apartment — One Forty-One East 72nd St., Inc., c/o Rouse & Goldstone, archts. and engrs., 512 5th Ave., will build 15 story, brick, steel and stone, plain foundation, 72nd St. and Lexington Ave., by day labor. $500,000.

N. Y., New York — Apartment — W. H. Peckham Syndicate, c/o G. F. Pelham, archt. and engr., 200 West 72nd St., will build 85 x 100 ft., brick, steel and stone, plain foundation, Lexington Ave. and 36th St., by day labor. $500,000.

N. Y., Upper Flushing (Flushing, P. O.)—School—Bd. Educ., 500 Park Ave., New York, general contract P.S. 107, Francona Ave. from 27th to 28th Sts., here, to J. MacArthur & Co., 220 Ormond Pl., Brooklyn, $926,999. Noted Sept. 27.

N. J., Newark — School — St. Antonius Roman Catholic Church, 337 South Orange Ave., 4 story, brick, steel and stone, plain foundation, to Frank O'Hare Co., Inc., 30 Madison Ave., New York City. Archts. est. $350,000. Noted May 17.

N. J., Newark — Theatre — City Investment Co., Firemens Bldg., 100 x 150 ft. brick, steel and stone, Bloomfield Ave., to Curtis, Warner Corp., 9 Clinton St. Archts. est. $150,000.

N. J., Ocean City—Bank and Office—P. A. Davis & Dunlap, archts., 1713 Sansom St., Phila., superstructure for 7 story, 62 x 86 ft., rein.-con., brick and limestone, concrete-pile foundation, 8th and Asbury Sts., here, to J. S. Rogers Co., Drexel Bldg., Phila., for Ocean City Bank. Noted Sept. 13.

Md., Salisbury—High School—Eastern Shore State Normal School, 3 story and basement, 188 x 343 ft., concrete and brick, sheet piling, to Consolidated Eng. Co., Calvert Bldg., Baltimore. Archts. est. $300,000. Noted Sept. 20.

W. Va., Huntington—Dormitory—State Bd. Control, Charleston, dormitory at hospital, here, to R. Mankin & Co., R. and P. Bldg., $166,739.

W. Va., Pruntytown (Grafton P. O.)—School—State Bd. Control, Charleston, 3 story, 69 x 150 ft. brick, tile, concrete, steel and limestone, here, to Engstrom & Co., Wheeling, $165,000. Noted Aug. 2.

Miss., Brookhaven — High School — Bd. Educ., general contract 2 story and basement, 125 x 200 ft., to W. J. McGee, Jackson, Archts. est. $150,000. Noted Aug. 31.

La., Shreveport—Clubhouse—Elks Club, 9 story, 42 x 106 ft., brick, stone and terra cotta, to McGehee Constr. Co., Baton Rouge, $378,873.

O., Geneva—High School—Bd. Educ., 2 story and basement, 159 x 182 ft., brick, steel and concrete, to Willing Bros. Constr. Co., Bellevue. Noted Sept. 27.

O., Lakewood (Cleveland P. O.)—Apartment—Urban Realty Co., c/o M. Levine, 333 Society for Savings Bldg., Cleveland, 3 story, brick and timber, Clifton Blvd. near Donald Ave., here, to M. Lessovitz, 2675 East 53rd St., Cleveland. Archts. est. $200,000.

O., Lorain—Clubhouse—Fraternal Order of Eagles, 4 story, 35 x 130 ft., brick, steel and concrete, Bway., to T. J. Hume, 435 Hamilton Ave., Cleveland. Archts. est. $150,000. Noted Jan. 11.

O., St. Clairsville—High School—Bd. Educ., 2 story and basement, 115 x 117 ft., brick and concrete, to C. W. Shimp, Martins Ferry, $109,000. Noted May 3.

Mich., Highland Park (Detroit P. O.)—Nurses Home—Highland Park General Hospital, 3 story and basement, rein.-con., brick and steel, plain foundation, to Bryant & Detwiler, 2336 Dime Bank Bldg., Detroit. Archts. est. $150,000.

Mich., Niles — Administration — Kawneer Mfg. Co., 3 story and basement, 59 x 120 ft. concrete and brick, plain foundation, to R. L. Reisinger & Co., 464 Oakland Ave., Milwaukee, Wis., Archts. est. $150,000.

Ill., Chicago—Apartment—J. Butterson, c/o A. H. Quitsow, archt., 11 South La Salle St., 3 story and basement, 100 x 149 ft.

Buildings (Continued)

fireproof, 6100-08 Winthrop St., to E. Gillund, 833 Greenleaf Ave. Archts. est. $200,000.

Ill., Chicago — Apartment — O'Connor, Burke & McDonnell, 6823 Stony Island Ave., 3 story, 87 x 124 ft., fireproof, 76th and Colfax Sts., to Olson & Berg, 8014 Champlain Ave. Archts. est. $150,000.

Wis., Madison—Apartment—W. B. Allison, 110 Monona Ave., will build 3 story, 100 x 150 ft., brick, rein.-con. and steel, plain foundation, by day labor. $150,000. R. A. Phillips, Beaver Bldg., archt.

Wis., Milwaukee — Apartment — Randco Corp., c/o Rosman & Wierdsma, archts., 424 Jefferson St., 3 story and basement, 45 x 60 x 134 ft., brick, tile and concrete, plain foundation, 16th St., to R. L. Reisinger & Co., 464 Oakland Ave. Archts. est. $150,000.

Wis., Milwaukee — Apartment — Retep Realty Co., c/o G. Zagel & Bros., 144 Oneida St., 3 story, 100 x 100 ft., brick, tile and concrete, plain foundation, to A. Peters, 1113 West 24th St. Archts. est. $150,000.

Wis., Milwaukee—Apartment—Wisconsin Bond & Mortgage Co., 440 Bway., 4 story and basement, 82 x 100 ft., brick, tile and concrete, Marshall St. and Juneau Ave., to R. Reisinger & Co., 464 Oakland Ave., Archts. est. $200,000. Noted July 19.

Wis., Milwaukee — Business — Republic Bldg. Co., 11th and Wells St., 2 story and basement, 100 x 102 ft., brick and concrete, plain foundation, to S. M. Siesel Co., 160 Ogden Ave. Archts. est. $150,000.

Wis., Milwaukee — Lodge — Columbia Lodge 11, Knights of Pythias, c/o A. Engel, 805 Grand Ave., 3 story and basement, 90 x 106 ft., brick, stone and concrete, Sherman Blvd., to H. Danischefsky, 1484 Humboldt Ave. Archts. est. $150,000. Noted Aug. 9.

Kan., Iola—High School—Bd. Educ., 2 story and basement, 95 x 141 ft., rein.-con., brick and stone, to Peterson Constr. Co., Salina, $116,300. Noted Oct. 11.

N. D., Mandan—High School—Bd. Educ., 2 story and basement, 65 x 136 ft. rein. con., brick, stone and tile, general contract to Redlinger & Hanson, Wahpeton, $89,000. Total est. $150,000. Noted Sept. 20.

Mo., Sedalia—Court House—W. E. Hulse & Co., archts., Hoke Bldg., Hutchinson, Kan., general contract 3 story and basement, 97 x 135 ft., rein.-con., brick and stone, to Western Constr. Co., 716 Park St., Des Moines, Ia., $285,500, for Pettis Co. Noted Sept. 20.

Mo., St. Louis — Store and Office — E. Freund, Iowa and Cherokee Sts., general contract 3 story and basement, 75 x 88 ft., brick and concrete, plain foundation, Grand Ave., to T. H. Ratz Constr. Co., 917 Pine St. Archts. est. $150,000. Noted Sept. 6.

Tex., Arlington — Administration — Order of Eastern Star Home, general contract 2 story, east of here, to Minn Constr. Co., Southwestern Life Bldg., Dallas, $173,000.

Wash., Seattle — Bank — Dexter-Horton Natl. Bank, 2nd and Cherry Sts., 10 story, 100 x 100 ft., concrete and steel, 2nd and Cherry Sts. (2nd unit of proposed bank), to Puget Sound Bridge & Dredging Co., Central Bldg., $1,250,000. Archts. est. $1,500,000.

Wash., Seattle — Office — Shafer Bros., Arcade Bldg., 8 additional stories to proposed Shafer Blk., (now under construction) steel and concrete, 6th and Pine Sts., to Western Constr. Co., Seaboard Bldg., $400,000.

Calif., Berkeley—Office—L. R. Lurie Co., 318 Montgomery St., San Francisco, 5 story and basement, concrete and brick, Telegraph Ave. and Channing Way, to Bay Constr. Co., Bacon Bldg., Oakland, $155,000.

Calif., Covina—Dormitory—Masonic Homes of California c/o Train & Williams, archts., Western Mutual Life Bldg., Los Angeles, general contract two 2 story, rein.-con. and brick, here, to J. Simpson Co., 701 San Antonio Ave., Los Angeles, $153,500. Noted Aug. 23.

Calif., Los Angeles—Bank and Office—Guaranty Building & Loan Assn., 6364 Hollywood St., 13 story and basement, 75 x 150 ft., rein.-con. and steel, Hollywood Blvd. and Ivar Ave., to W. Simpson Constr. Co., Bank of Italy Bldg., $900,000.

Calif., Los Angeles — Office — See "Industrial Works."

Calif., Los Angeles—School—Bd. Educ., general contract 3 story, 100 x 265 ft., rein.-con., 16th and Hill Sts., to MacDonald & Driver, Douglas Bldg., $244,076. Noted Oct. 4.

Calif., Los Angeles—Store and Apartment—A. O. Evans, 3423 Vermont St., 2 story and basement, brick, 35th and Vermont Sts., to T. H. Stewart, 1005 Bank of Italy Bldg., $154,000. Noted Aug. 16.

Calif., Pasadena — Bank and Office — Pacific Southwest Trust and Savings Bank, 565 South Spring St., Los Angeles, 8 story and basement, 150 x 200 ft., concrete, brick and steel, Marengo and Colorado Sts., here, to Scofield Eng. Co., Pacific Finance Bldg., Los Angeles, $1,000,000.

Calif., Pasadena—Laboratory—California Institute of Technology, 1201 California St., 3 story and basement, rein.-con., California St., to W. C. Crowell, Security Bldg., $150,000.

Calif., San Francisco—Apartment—C. R. Bricca, 1330 4th Ave., 10 story and basement, rein.-con., Green St. near Jones Sts., to Grace & Bernieri, Claus Spreckels Bldg., cost plus percentage basis, will exceed $300,000. Noted Mar. 29.

Calif., San Francisco—Apartment—Two Thousand and Six Washington St. Inc., c/o C. A. Meussdorffer, Humboldt Bank Bldg., 10 story, basement and sub-basement, rein.-con., Washington St. near Gough St., to R. Trost, 26th and Howard Sts., $625,000. Noted Sept. 20.

Calif., San Francisco—Convent—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., 2 story, rein.-con., Green St., to T. B. Goodwin, 2245 Filbert St., $150,000.

Ont., St. Catharines—Station—Niagara & St. Catharines Electric Ry., 3 story, 40 x 131 ft. concrete, brick and steel, to Frid Constr. Co., Clyde Blk., Hamilton, $150,000.

Federal Government Work

PROPOSED WORK

Pa., Pittsburg—Clam Shell Buckets—U. S. Engineer, Pittsburg, plans to purchase two 2 yard clam shell buckets.

Ala., Mobile—Buckets—U. S. Engineer, Mobile, plans to purchase one 3 side orange peel bucket and one 3 yd. clam shell bucket.

Wash., Camp Lewis—Pipe Line—Constructing Quartermaster plans pipe line to replace present one extending from pumping station on Lake Squalichew to Post.

BIDS DESIRED

N. Y., Hoosick Falls—Post Office—Nov. 5, by Treas. Dept., Wash., D. C., constructing U. S. Post Office, here. J. A. Wetmore, acting superv. archt.

Va., Norfolk—Dredging—Oct. 30, at office U. S. Engineer, dredging in eastern branch of Elizabeth River, in Harbor, here; adv. E. N.-R. Oct. 11.

Miss., Vicksburg—Roadwork—Oct. 15, by Quartermaster Intermediate Depot, Jeffersonville, Ind., repairing approach roadway to U. S. National Cemetery, here.

La., New Orleans—Dredge Pump, etc.—Nov. 2, by U. S. Engineer, 329 Custom House, one 24 in. dredge pump and suction mouth piece; adv. E. N.-R. Oct. 11.

Ill., Belleville—Hangars—Oct. 15 at office Constructing Quatermaster, Scott Field, two 66 x 160 ft. steel hangars.

Montana — Road — Oct. 16, by C. H. Purcell, dist. engr., U. S. Bureau Pub. Rds., Dept. Agriculture, Smead-Simons Bldg., Missoula, grading and surfacing 7 mi. Clarks Fork, Weeksville Sect., Cabinet National Forest Rd. Project, Sanders Co., 23,000 cu.yd. rock and 41,300 cu.yd. earth excav., 6,100 cu.yd. crushed rock or gravel, etc.

Ark., Pine Bluff—Mattresses, etc.—Oct. 20 at office U. S. Engineer, 911 McCall Bldg., Memphis, Tenn., constructing subaqueous mattresses and paving bank between Dikes 7 and 9, Arkansas River, here.

Tex., San Antonio—Floors and Runways—Oct. 15 at office Constructing Quartermaster, Ft. Sam Houston, concrete floors and runways at air intermediate depot, Kelly Field 1, here.

Idaho, American Falls—Sewer Pipe—Nov. 6, by O. S. Bureau of Recl., American Falls, furnishing sewer pipe in Reclamation Addition to this city, Minidoka Project. M. Bien, acting comr.; adv. E. N.-R. Oct. 11.

Calif., San Francisco—Pump, etc.—Constructing Quartermaster, Ft. Mason, receiving bids for pump and motor addition to pumping station at Lobos Creek.

Alaska, Juneau—Road—Oct. 20, at office U. S. Engineer, Juneau, crushed rock surfacing 3.63 mi. Ketchikan-Wards Cove Sect. of Tongass National Forest Rd., 4,778 cu. yd. crushed rock, etc. Contractor may lease government machinery.

BIDS RECEIVED

R. I., Providence—Dredging—U. S. Engineer, Providence, dredging 52,500 cu.yd. soft material and 125 cu.yd. boulders, in Pawcatuck River, Rhode Island and Connecticut, from Bay State Dredging and Contg. Co., 62 Condor St., East Boston (Boston P. O.), Mass., $29,800. Noted Aug. 30.

N. Y., Brooklyn—Alteration—Spec. 4866—Bureau Yards & Docks, Navy Dept., Wash., D. C., alterations to nurses quarters at Naval Hospital, here, from J. F. Ferguson, 504 West 53rd St., New York, $1,972.

N. Y., Niagara Falls—Extension—Treas. Dept., Wash., D. C., extension to U. S. Post Office, here, from A. Smith Co., Niagara Falls, $11,744. Noted Sept. 27.

D. C., Wash.—Recreation Building, etc.—U. S. Veterans Bureau Arlington Bldg., recreation building, alteration and addition to garage for attendant's quarters at U. S. Veterans Hospital 32, Mt. Alto, here, from Skinker & Garrett, 1416 F St., $81,000. Noted Sept. 13.

CONTRACTS AWARDED

Mass., Boston—Dredging—U. S. Engineer, Custom House, dredging and disposing of 600,000 cu.yd. material from Beverly Harbor, to J. S. Packard Dredging Co., Turks Head Bldg., Providence, R. I., $24,891. Noted Aug. 2.

Mass., Rutland — Quarters — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing complete, nurses quarters, mess hall and utilities building at U. S. Veterans Hospital 89, here, to Imbach-Wozny-McCoy, Inc., 700 Knickerbocker Bldg., Baltimore, Md., $122,000 (8 months). Noted Sept. 27.

R. I., Pawtucket—Mailing Vestibule, etc.—Treas. Dept., Wash., D. C., mailing vestibule and driveway at U. S. Post Office, here, to F. A. O'Hare Co., 357 Westminster St., Providence, $2,500. (30 days).

Pa., Phila.—Repairs—U. S. Shipping Bd., c/o J. M. Hoffman, Head, Div. of Docks and Wharves, 1907 Navy Bldg., Wash., D. C., repairs to substructure and deck of portions of Piers 97, 98 and 99, Greenwich Point Delaware River, here, to E. Fay & Son, 2 South Mole St., $154,800. Noted Sept. 13.

W. Va., Huntington—Forgings—For 86 forgings, total weight 77,000 lb. for Dam 13, Ohio River, to Amer. Car and Fdry. Co., Jeffersonville, Ind., $5,547.

La., New Orleans—Cement—U. S. Engineer, furnishing 5,000 bbl. portland cement to J. W. Kearny & Sons, 514 South Peters St., $15,100. Noted Oct. 4.

Ky., Dawson Springs—Outside Service Lines—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., outside service lines for heating, drainage, etc., recreation building and 4 duplex officers quarters, U. S. Veterans Hospital 79, here, to Noland-Clifford Co., 330 28th St., Newport News, Va., $27,262. Noted Sept. 6.

Ky., Louisville—Steel and Iron Work—U. S. Engineer, P. O. Box 72, steel and iron work for power house at Lock and Dam 44, Ohio River, to General Iron Wks. Co., Front and Harriet Sts., Cincinnati, O. Engrs. est. $5,000. Noted Sept. 20.

O., Cincinnati—Piling—U. S. Engineer, Cincinnati, furnishing sixty 30 ft. taper piles, one hundred forty-six 40 ft. and sixty 35 ft. steel sheet piles for Dams 34, 36 and 38, to Bethlehem Steel Co., Cincinnati, $2.94 cwt. Noted Oct. 4.

Neb., Mitchell—Siphon—O. S. Recl. Bureau, Mitchell, constructing Stiver Canyon concrete siphon, Sta. 5685 on Ft. Laramie Canal, North Platte Project, Nebaraska-Wyoming, near Haig, to Jones Eng. and Constr. Co., Inc., 315 Courtney Bldg., Omaha, $39,690. Noted Aug. 9.

Alaska, Sitka—Road—U. S. Bureau Pub. Rds., Wash., D. C., 4 mi. highway near here, to Sims & Carlson, Realty Bldg., Spokane, Wash., $125,000.

FEDERAL POWER COMMISSION

Applications for Licenses and Permits

Application

431—Idaho Power Co., 7th and Bannock Sts., Boise, Idaho—Wants license for transmission line from Gypsum to Lime, Baker Co., Ore.

432—Pigeon River Power Co., c/o F. R. Weller, Mills Bldg., Wash., D. C.—Wants license for dam, tunnels, conduit and power house in Big Pigeon River at North Carolina-Tennessee State line.

433 — R. Carson, Mono Lake, Calif — Wants license for small diversion ditch from South Fork of Rush Creek to power house at Silver Lake, to develop 5 hp. in Mono Co.

Federal Power Commission (Continued)

434—R. Bennett, 1125 Central Bldg., Los Angeles, Calif.—Wants preliminary permit to divert part of flow of Big Rock Creek in Los Angeles Co., into storage reservoir.

435—Beaverhead Transmission Co., Butte, Mont.—Wants license for transmission line between Sheridan and Dillon.

436 — Winino Mineral Springs, 32 9th Ave., W., Eugene, Ore.—Wants license for small project on Salt Creek, Lane Co.

437—Mt. Reubens Mining Co., Grant's Pass, Ore.—Wants license for small project on Reubens Creek, Josephine Co.

438 — Southern California Edison Co., Edison Bldg., Los Angeles, Calif.—Wants license for transmission line in Angeles National Forest, near here.

Miscellaneous

PROPOSED WORK

Grain Elevator—Middletown, Conn.—See "Industrial Works."

Steam Heating Plant, etc.—Albany, N. Y.—Albany City Hospital, North Scotland Ave., soon takes bids installing new steam heating plant and minor repairs to Pavilion F. $35,000. J. G. Brennan, city engr.

Lighting and Pumping System—Canandaigua, N. Y.—Plans installing lighting and pumping system. $60,000-$75,000. W. J. MacFarlane, mayor. Engineer not announced.

Track Elevation—Trenton, N. J.—Pennsylvania R.R., Broad St. Sta. Phila., having plans prepared elevating tracks on Belvidere Div., here. $150,000. A. B. Temple, Broad St. Sta., Phila., engr.

Transmission Lines—Pennsylvania — See "Industrial Work."

Transmission Line—Pennsylvania — West Penn Power Co., West Penn Bldg., Pittsburgh, plans transmission line, six 132,000 volt wires and three 22,000 volt across Monongahela River at Baird Sta., Washington Co., all on 90 ft. steel towers. $30,000.

Transmission Lines—Gibsland, La.—See "Waterworks."

Coal Tipple—Dawson Springs, Ky.—Dawson Daylight Coal Co. plans coal tipple, crushing outfit and loading booms for opening new coal lands. $30,000.

Transmission Line — Indiana — Indiana Electric Corp., Indianapolis (subsidiary of Central Indiana Power Co.), plans 20 mi. transmission line, 33,000 volts, from Sullivan to Worthington. $40,000. J. H. Brewer, pres.

Parks — Appleton, Wis. — City plans 2 parks, incl. laying out roads, walks, buildings, baseball diamonds, tennis courts, pools, etc. $25,000. E. L. Williams, city clk. Architect not selected.

Athletic Field—Madison, Wis.—Common Council appropriated $50,000 for creation athletic field on east side, incl. tennis courts, football fields, grandstands, apparatus, etc. H. C. Buser, City Hall, clk. Engineer not selected.

Swimming Pool—Two Rivers, Wis.—Bd. Educ. making plans brick, steel and tile swimming pool in high school. $25,000. J. D. Chubb, North Dearborn St., Chicago, engr.

Stadium—Minneapolis, Minn.—University of Minnesota having plans prepared by Osborn Eng. Co., 7016 Euclid Ave., Cleveland, O., for stadium. F. M. Mann, dean of Architectural School, associated archt. Noted Sept. 27.

Transmission Lines—Cameron, Mo.—See "Industrial Works."

Breakwater—Ft. Smith, Ark.—Soon takes bids breakwater in Poteau River, also plans to purchase new chlorination machine of 25 lb. daily capacity and dry alum machine 800 lb. daily capacity. $30,000.

Transmission Line — Hiram, Ark. — See "Dam."

Park Improvements—Ft. Worth, Tex.—Making plans walks, drives and other improvements to Cobb Park, etc. $25,000. G. C. Clarke, park supt.

Levee — Kaufman, Tex. — Kaufman Co. Levee Impvt. Dist. 4, election Oct. 13, to vote on $175,000 bonds for improvements, alterations and repairs. Engineer not announced.

Swimming Pools, etc.—San Antonio, Tex.—Plans to vote on $100,000 bonds first week in December, general improvements, incl. 1 or 2 new concrete swimming pools, beautifying parks and additional playground and apparatus. D. D. Harrigan, city engr.

Street Repairing Machine—Chico, Calif.—City plans to purchase machine to repair asphalt streets. F. S. Robinson, city engr.

Electroliers—Fresno, Calif.—Had plans prepared 350 electroliers, c.i. and steel on cement concrete, 2 ft. deep and 2 ft. sq., conduit to be galvanized metal tubing containing wire conductors, etc. $25,000 or more. W. Stranahan, city engr.

Gas Holder—Los Angeles, Calif.—Southern California Gas Co., 950 South Bway., plans 10,000,000 cu.ft. gas holder.

Park, etc.—Richmond, Calif.—Plans to purchase block bounded by 12th and 13th Sts., Bissel and Macdonald Aves., for park improvements and Amer. Legion memorial building. Park site improvements will exceed $25,000.

Swimming Pool—Richmond, Calif.—See "Buildings."

Subway Crossing — Sacramento, Calif.—Having preliminary plans prepared subway crossing at 2nd and R Sts. $50,000-$60,000. A. Givan, city engr.

Power Distributing System—San Francisco, Calif.—Bd. Supervs. of city and San Francisco Co., voted for municipal distribution of power developed on Hetch Hetchy Project. M. M. O'Shaughnessy, city engr., instructed to prepared plans and specifications.

Electric Light and Power System—Blyth, Ont.—Council plans hydro electric lighting and power distribution system. $28,000. Work will be carried out under direction of Hydro Comn., A. Beck, chn., London.

Hydro Electric System—Cayuga, Ont.—City plans hydro electric system. $30,000.

Power Lines—Islington, Ont.—Etobicoke Twp. plans to expend $40,000 for extending lines. Work will probably be done by day labor. S. Barratt, twp. clk.

Drilling—Spry, Ont.—J. H. Cook, Lions Head, interested in syndicate which plans to drill for oil on 6,000 acres in Eastner Twp. $30,000.

BIDS DESIRED

Underground Fire Alarm System — New York, N. Y.—Oct. 17, by T. J. Drennan, fire comr., Municipal Bldg., part of underground fire alarm system in Bronx Boro.

Boardwalk—Spring Lake, N. J.—Nov. 7, by Mayor and Boro Council, Boro Hall, constructing boardwalk. J. M. Braly, boro engr. E. H. Schmieder, Spring Lake, consult. archt.; adv. E. N.-R. Oct. 11.

Ornamental Lighting System—DuBois, Pa.—Oct. 15, by G. Minns, supt. Dept. Pub. Safety, ornamental lighting system on Long Ave. from Stockdale to Main Sts., and on Brady St. from Weber Ave. and Liberty Bridge, 100 standards.

Lumber—New Orleans, La.—Oct. 18, by Bd. Port Comrs., Suite 200 New Court House Bldg., furnishing 60,000 ft. untreated yellow pine. J. H. Walsh, genl. mgr.

Wall and Dike, etc.—Shreveport, La.—Oct. 23, by S. G. Wolf, secy.-treas., 1,000 ft. sheet pile toe wall, 24 ft. deep, 2,200 ft. pile dike 55 ft. deep, willow fascine or plank mattress under dike 100 x 2,200 ft., 20,000 cu.yd. grading and 25,000 sq.ft. creosote pavement. Alternate bids on log crib filled with brush anchored to piling. C. E. Smith, Ry. Exch., St. Louis, Mo., engr.

Unloading Equipment, etc.—Toledo, O.—Swan Creek Lumber & Supply Co., City Park Ave., in market for unloading equipment, pit and automatic conveyors, 4 coal storage tanks, etc. K. Aschbacher, purch. agt.

Tractor—Racine, Wis.—W. A. Bechthold, highway comr. Racine Co., taking bids medium sized tractor.

Tractor—Grand Rapids, Minn.—Oct. 23, by T. Erskine, aud. Itasca Co., one 10 ton tractor. H. A. LeSueur, Grand Rapids, engr.

Materials—St. Paul, Minn.—Oct. 16, by H. W. Austin, city purch. agt., materials for paving Plum St. between Mound Blvd. and Maria Ave., 380 bbl. portland cement, 623 cu.yd. crushed rock, 27 tons asphalt, 116 tons cinder stone, 45 tons trap rock; also 400 coils ¾ in. extra strong lead pipe and 5,000 lb. solder for Water Dept. C. M. Shepard, city engr.

Rails—Houston, Tex.—Oct. [illegible] at Navigation Commissioners Office, [illegible],000 lin.ft. 70-80 lb. rails, new or relay, bids for both rails and fastenings.

Grade Separation — Colorado — See "Streets and Roads."

Subway—San Francisco, Calif.—Oct. 25, by State Bd. Harbor Comrs., Ferry Bldg., subway under Ferry Loop at foot of Market St. $425,000. F. G. White, ch. engr. Noted June 28.

Road Scrapers—Montreal, Que.—Oct. 15, by R. Bauset, city clk., 3 auto road scrapers.

Underground Cable—London, Ont.—Utilities Comrs. taking bids 13,000 volt underground cable. $35,000. E. V. Buchanan, c/o owner, engr.

Motor Flusher—Pembroke, Ont.—Taking bids one motor flusher.

Breakwater—Port Lorne, N. S.—Oct. 22, by R. C. Desrochers, secy. Dept. Pub. Wks., Ottawa, 50 ft. extension to concrete breakwater, 45 ft. wide, here. $27,000.

Breakwater—St. Francis Harbour, N. S.—Oct. 22, by R. C. Desrochers, secy. Dept. Pub. Wks., Ottawa, Ont., 301 ft. concrete breakwater, 20 ft. wide, here. $60,000.

BIDS RECEIVED

Subway—Brooklyn, N. Y.—Transit Comm., 49 Lafayette St., New York, Oct. 2, subsurface railroad extending along and under 4th Ave. from 87th to 95th Sts., here, from T. A. Gillespie Co., 7 Dey St., New York, $1,725,884. Noted Sept. 20.

Grapple Dredge — Phila., Pa. — G. F. Sproule, dir. Dept. Wharves & Ferries, grapple dredge from Ellicott Machine Co., Bush and Syrian Sts., Baltimore, Md., $211,000. Noted Sept. 20.

Fill—Florida — State Hy. Dept., Tallahassee, Sept. 27, 2.3 mi. fill for Escambia Bay Bridge, Project 38-A, Escambia Co., from Atlantic Gulf & Pacific Co., 13 Park Row, New York City, $491,550.

Levee—Portage, Wis.—Wisconsin State Levee Comn., Capitol, Madison, strengthening, enlarging and protecting portions of levee system, from M. S. Burgitt, Britt, Ia., $26,150. Noted Sept. 20.

CONTRACTS AWARDED

Park—Rockville, Conn.—Grading and paths in Fox Hill Park, to J. Hoye, 374 Capen St., Hartford. Archts. est. $25,000. Noted April 19.

Asphaltic Cement, etc.—Brooklyn, N. Y.—E. Riegelmann, boro pres., Boro Hall, 300,000 gal. asphaltic cement to Warner Quinlan Co., 79 Wall St., New York, $15,600; 6,000 cu.yd. binder stone to Calvin Tompkins Co., 30 Church St., New York, $13,860; 50,000 asphalt paving blocks to Hastings Paving Co., 25 Broad St., New York, $4,780; 50,000 grade 1 granite paving blocks to Rockport Granite Co., 13 Park Row, New York, $6,900; 50,000 wood paving blocks to Amer. Creosoting Co., 17 Battery Pl., New York, $2,950; 60,400 ft. lumber to East River Mill & Lumber Co., 92nd St. and East River, New York, $3,962. Noted Sept. 13.

Foundation—Kohler, Wis.—See "Industrial Works under Proposed Work."

Basement—Milwaukee, Wis.—See "Buildings under Proposed Work."

Grade Separation—Milwaukee, Wis.—Bd. Pub. Wks., grade separation at Forest Home Ave., etc., to H. Danischefsky, 1484 Humboldt Ave., Milwaukee, $47,698. Noted Sept. 27.

Wall—Waterloo, Ia.—City and Illinois Central Ry. Co., 135 East 11th Pl., Chicago, 525 lin.ft. rein.-con. river wall on Cedar St. between 5th and 6th Sts., to H. Maine & Co., 305 Marsh Pl., $50,000. Noted Aug. 30.

Tunnel—Redding, Calif.—Pacific Gas and Electric Co., 445 Sutter St., San Francisco, concrete lined tunnel, 4 mi. long, 19 ft. diam., at Pit 3, Shasta Co., to Bates & Borland, Bank of Savings Bldg., Oakland.

Tanks—Watson, Calif.—Pan American Petroleum Transport Co., erecting two 80,000 bbl. and thirteen 100,000 bbl. tanks equipped with water tops, to Chicago Bridge & Iron Wks., Hudson Terminal Bldg., New York City.

Electric Lighting System—Point Grey, B. C.—New electric lighting system in Shaughnessy Heights, to Farr, Robinson & Bird, 546 Howe St., Vancouver. Engrs. est. $58,000.